



IES ROAD REPORT

PHOTOMETRIC FILENAME : WPLED26DC - PROPRATED FROM ITL80286.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]SCALED FROM ITL80286
 [TESTLAB]SCALED PHOTOMETRY
 [ISSUEDATE]01/24/14
 [MANUFAC]RAB LIGHTING, INC.
 [LUMCAT]WPLED26DC (WALLPACK) - ALED26DC (AREA LIGHTER)
 [LUMINAIRE]CAST FINNED METAL HOUSING, MACHINED METAL HEAT SINK, 1
 [MORE]CIRCUIT BOARD WITH 1 LED, MOLDED PLASTIC REFLECTOR WITH
 [MORE]SEMI-SPECULAR FINISH, CLEAR FLAT GLASS LENS IN CAST BROWN
 [MORE]PAINTED METAL FRAME.
 [LAMP]ONE WHITE MULTI-CHIP LIGHT EMITTING DIODE (LED), TILTED
 [MORE]33-DEGREES FROM VERTICAL BASE-UP POSITION.
 [OTHER]TOTAL INPUT WATTS = 27.5 AT 12.0 VOLTS
 [_LEDDRIVER]RAB RD126-DC-A0700
 [_NOTE]DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT
 [MORE]VOLTAGE (12VDC) TO THE DRIVER. DRIVER INFORMATION
 [MORE]PROVIDED BY CLIENT.
 [OTHER]TEST PROCEDURE: IESNA LM-79-08
 [OTHER]TEST DISTANCE = 20.0 FEET
 [_ABSOLUTE]LUMENS]2473

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2473
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	27.5
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1337.472
Maximum Candela Angle	0H 35V
Maximum Candela (<90 Degrees Vertical)	1337.472
Maximum Candela Angle (<90 Degrees Vertical)	0H 35V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	209.909 (8.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	454.1	N.A.	18.4
FM - Front-Medium (30-60)	1137.8	N.A.	46.0
FH - Front-High (60-80)	512.5	N.A.	20.7
FVH - Front-Very High (80-90)	8.7	N.A.	0.4
BL - Back-Low (0-30)	214.8	N.A.	8.7
BM - Back-Medium (30-60)	136.2	N.A.	5.5
BH - Back-High (60-80)	8.8	N.A.	0.4
BVH - Back-Very High (80-90)	< 0.05	N.A.	0.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	2472.9	N.A.	100.0
BUG Rating	B1-U0-G0		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	55	65	75	85
0.0	921.370	921.370	921.370	921.370	921.370	921.370	921.370	921.370	921.370	921.370
2.5	971.525	969.667	968.738	965.952	961.308	956.664	951.091	943.661	935.302	926.014
5.0	1013.321	1010.534	1008.677	1002.175	993.816	985.457	972.454	959.450	943.661	926.942
7.5	1055.117	1052.330	1047.686	1039.327	1025.395	1010.534	991.030	972.454	949.234	924.156
10.0	1095.984	1094.126	1087.625	1075.550	1056.974	1034.683	1008.677	982.670	952.020	920.441
12.5	1134.994	1133.136	1124.777	1109.916	1086.696	1058.832	1025.395	990.101	952.949	913.939
15.0	1172.146	1169.359	1160.071	1142.424	1116.418	1082.052	1040.256	996.602	952.020	905.580
17.5	1204.654	1203.725	1192.579	1173.074	1140.566	1100.628	1052.330	1000.318	947.376	895.363
20.0	1237.162	1235.304	1220.443	1198.152	1162.858	1117.346	1062.547	1003.104	940.874	881.431
22.5	1265.954	1263.168	1249.236	1222.301	1183.291	1131.278	1069.978	1002.175	931.586	864.713
25.0	1291.961	1289.174	1272.456	1243.663	1199.081	1141.495	1071.835	998.460	920.441	847.066
27.5	1311.466	1308.679	1291.961	1261.310	1213.013	1147.997	1071.835	991.030	905.580	825.703
30.0	1326.326	1322.611	1307.750	1274.314	1223.230	1153.570	1069.049	979.884	888.862	801.554
32.5	1333.757	1330.970	1315.181	1282.673	1228.802	1153.570	1061.618	965.023	869.357	775.548
35.0	1337.472	1334.686	1318.896	1284.530	1228.802	1149.854	1052.330	947.376	844.279	746.755
37.5	1333.757	1331.899	1317.967	1284.530	1224.158	1141.495	1038.398	926.942	818.273	715.176
40.0	1325.398	1323.540	1309.608	1278.029	1215.799	1129.421	1020.751	903.722	788.551	681.739
42.5	1310.537	1308.679	1296.605	1265.026	1202.796	1109.916	1000.318	876.787	757.901	646.445
45.0	1291.961	1289.174	1275.242	1247.378	1185.149	1089.482	975.240	847.994	724.464	608.364
47.5	1266.883	1264.097	1249.236	1223.230	1162.858	1067.191	948.305	816.415	687.312	568.426
50.0	1237.162	1235.304	1219.514	1193.508	1135.922	1041.185	919.512	782.050	648.302	527.558
52.5	1204.654	1201.867	1184.220	1156.356	1103.414	1012.392	887.004	745.826	607.435	484.834
55.0	1166.573	1164.715	1147.997	1116.418	1064.405	981.742	849.852	705.888	564.710	439.322
57.5	1125.706	1121.990	1104.343	1072.764	1023.538	947.376	812.700	665.021	523.843	391.954
60.0	1074.622	1075.550	1056.046	1024.466	980.813	909.295	770.904	622.296	480.190	342.727
62.5	1013.321	1017.036	1000.318	971.525	928.800	865.642	723.535	575.856	434.678	291.643
65.0	938.088	935.302	923.227	905.580	870.286	817.344	670.594	526.630	382.666	237.773
67.5	826.632	829.418	824.774	815.486	794.124	759.758	612.079	465.329	319.507	181.116
70.0	725.393	728.179	720.749	712.390	696.600	687.312	538.704	389.167	255.420	127.246
72.5	614.866	622.296	625.082	616.723	591.646	591.646	443.966	316.721	194.119	73.375
75.0	429.106	441.180	456.041	484.834	493.193	472.759	358.517	242.417	110.527	24.149
77.5	249.847	243.346	257.278	295.358	336.226	356.659	264.708	120.744	31.579	3.715
80.0	70.589	65.945	78.948	115.171	158.825	209.909	110.527	25.078	4.644	0.929
82.5	12.074	13.003	12.074	13.932	26.935	60.372	15.790	4.644	1.858	0.929
85.0	5.573	5.573	5.573	5.573	4.644	4.644	3.715	1.858	0.929	0.929
87.5	1.858	1.858	1.858	1.858	1.858	1.858	0.929	0.929	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>	<u>175</u>
0.0	921.370	921.370	921.370	921.370	921.370	921.370	921.370	921.370	921.370	921.370
2.5	921.370	915.797	907.438	896.292	887.933	877.716	873.072	868.428	863.784	862.855
5.0	917.654	908.366	889.790	868.428	851.710	834.062	820.130	808.985	800.626	796.910
7.5	911.153	897.221	868.428	837.778	809.914	782.978	761.616	743.040	730.037	724.464
10.0	902.794	885.146	846.137	805.270	765.331	728.179	697.529	671.522	654.804	646.445
12.5	891.648	870.286	820.130	768.118	717.034	669.665	628.798	596.290	573.998	561.924
15.0	881.431	852.638	793.195	728.179	665.021	607.435	556.351	516.413	487.620	474.617
17.5	865.642	833.134	764.402	686.383	610.222	541.490	480.190	432.821	400.313	384.523
20.0	848.923	811.771	730.966	641.801	556.351	472.759	406.814	349.229	312.077	294.430
22.5	829.418	788.551	696.600	595.361	496.908	403.099	328.795	267.494	226.627	208.051
25.0	808.056	763.474	660.377	546.134	435.607	332.510	251.705	187.618	147.679	130.961
27.5	784.836	735.610	621.367	495.050	370.591	262.850	175.543	118.886	86.378	76.162
30.0	758.830	704.959	578.642	442.109	307.433	194.119	111.456	69.660	57.586	55.728
32.5	729.108	672.451	535.918	387.310	245.203	130.961	65.945	51.084	48.298	47.369
35.0	698.458	636.228	491.335	331.582	184.831	78.019	46.440	42.725	40.867	39.938
37.5	665.021	599.076	444.895	275.854	126.317	46.440	39.010	36.223	35.294	34.366
40.0	629.726	560.066	395.669	221.054	76.162	35.294	31.579	30.650	29.722	28.793
42.5	591.646	520.128	346.442	167.184	41.796	27.864	26.006	26.006	25.078	24.149
45.0	554.494	476.474	296.287	117.958	27.864	23.220	22.291	21.362	19.505	19.505
47.5	512.698	432.821	247.061	73.375	21.362	19.505	17.647	16.718	15.790	14.861
50.0	469.973	387.310	198.763	38.081	17.647	15.790	13.932	13.003	12.074	11.146
52.5	422.604	340.870	152.323	20.434	14.861	13.003	11.146	10.217	9.288	9.288
55.0	376.164	292.572	108.670	14.861	12.074	9.288	8.359	7.430	6.502	6.502
57.5	324.151	243.346	66.874	12.074	9.288	7.430	6.502	5.573	4.644	4.644
60.0	273.067	192.262	35.294	9.288	7.430	5.573	4.644	3.715	3.715	3.715
62.5	221.054	142.106	14.861	7.430	5.573	3.715	2.786	2.786	2.786	1.858
65.0	167.184	93.809	8.359	5.573	3.715	2.786	1.858	1.858	1.858	1.858
67.5	115.171	52.013	5.573	3.715	2.786	1.858	0.929	0.929	0.929	0.929
70.0	65.945	19.505	3.715	2.786	1.858	0.929	0.929	0.000	0.000	0.000
72.5	26.935	4.644	1.858	0.929	0.929	0.929	0.000	0.000	0.000	0.000
75.0	5.573	2.786	0.929	0.929	0.929	0.000	0.000	0.000	0.000	0.000
77.5	1.858	0.929	0.929	0.929	0.000	0.000	0.000	0.000	0.000	0.000

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80.0	0.929	0.929	0.929	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.929	0.929	0.929	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.929	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

	180
0.0	921.370
2.5	861.926
5.0	795.053
7.5	722.606
10.0	644.587
12.5	560.066
15.0	472.759
17.5	381.737
20.0	291.643
22.5	204.336
25.0	128.174

IES ROAD REPORT
PHOTOMETRIC FILENAME : WPLED26DC - PROPRATED FROM ITL80286.IES

CANDELA TABULATION - (Cont.)

27.5	73.375
30.0	54.799
32.5	46.440
35.0	39.938
37.5	34.366
40.0	28.793
42.5	24.149
45.0	18.576
47.5	14.861
50.0	11.146
52.5	8.359
55.0	6.502
57.5	4.644
60.0	3.715
62.5	1.858
65.0	1.858
67.5	0.929
70.0	0.000
72.5	0.000
75.0	0.000
77.5	0.000
80.0	0.000
82.5	0.000
85.0	0.000
87.5	0.000
90.0	0.000
92.5	0.000
95.0	0.000
97.5	0.000
100.0	0.000
102.5	0.000
105.0	0.000
107.5	0.000
110.0	0.000
112.5	0.000
115.0	0.000
117.5	0.000
120.0	0.000
122.5	0.000
125.0	0.000
127.5	0.000
130.0	0.000
132.5	0.000
135.0	0.000
137.5	0.000
140.0	0.000
142.5	0.000
145.0	0.000
147.5	0.000
150.0	0.000
152.5	0.000
155.0	0.000
157.5	0.000
160.0	0.000
162.5	0.000
165.0	0.000

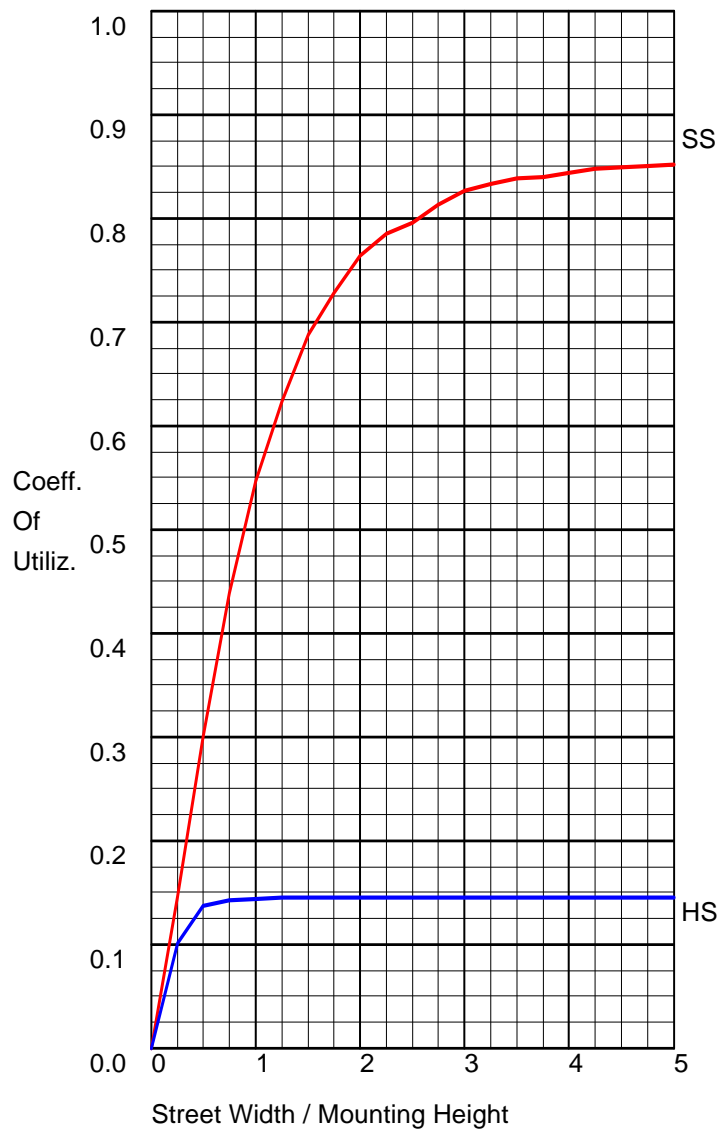
IES ROAD REPORT

PHOTOMETRIC FILENAME : WPLED26DC - PROPRTED FROM ITL80286.IES

CANDELA TABULATION - (Cont.)

167.5	0.000
170.0	0.000
172.5	0.000
175.0	0.000
177.5	0.000
180.0	0.000

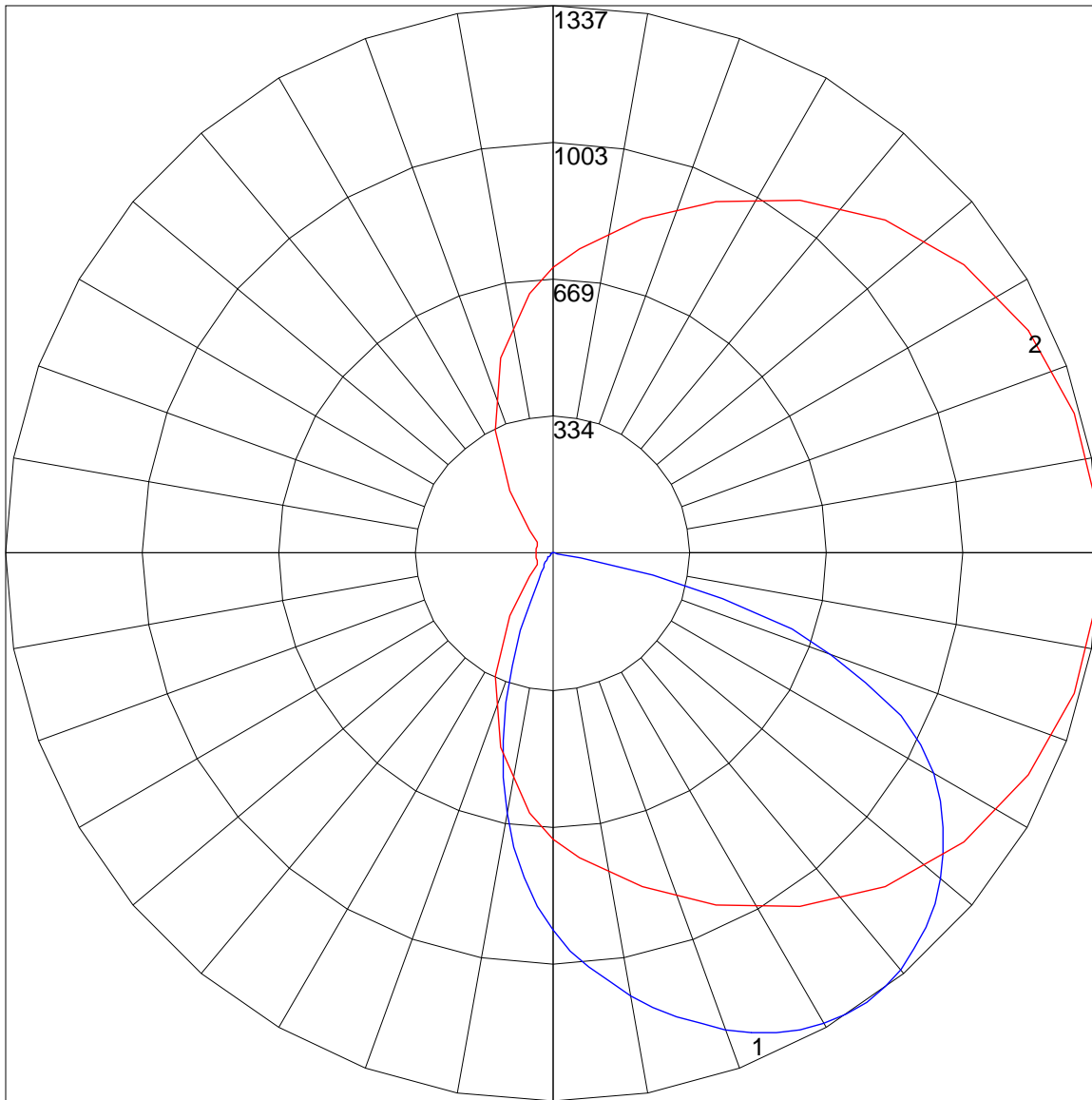
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

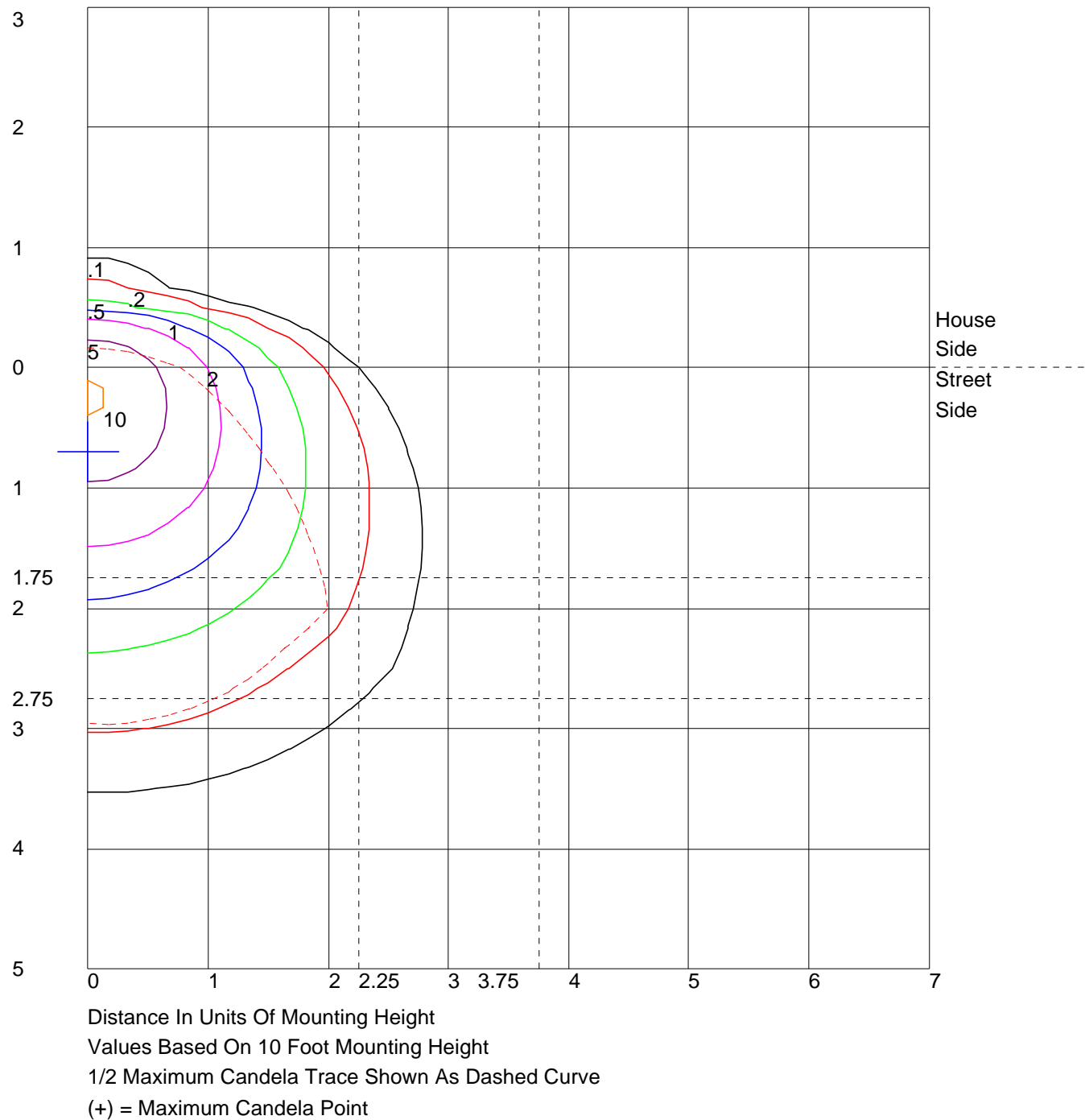
	Lumens	Percent Of Luminaire
Downward Street Side	2113.1	85.5
Downward House Side	359.8	14.5
Downward Total	2472.9	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	2472.9	100.0

POLAR GRAPH

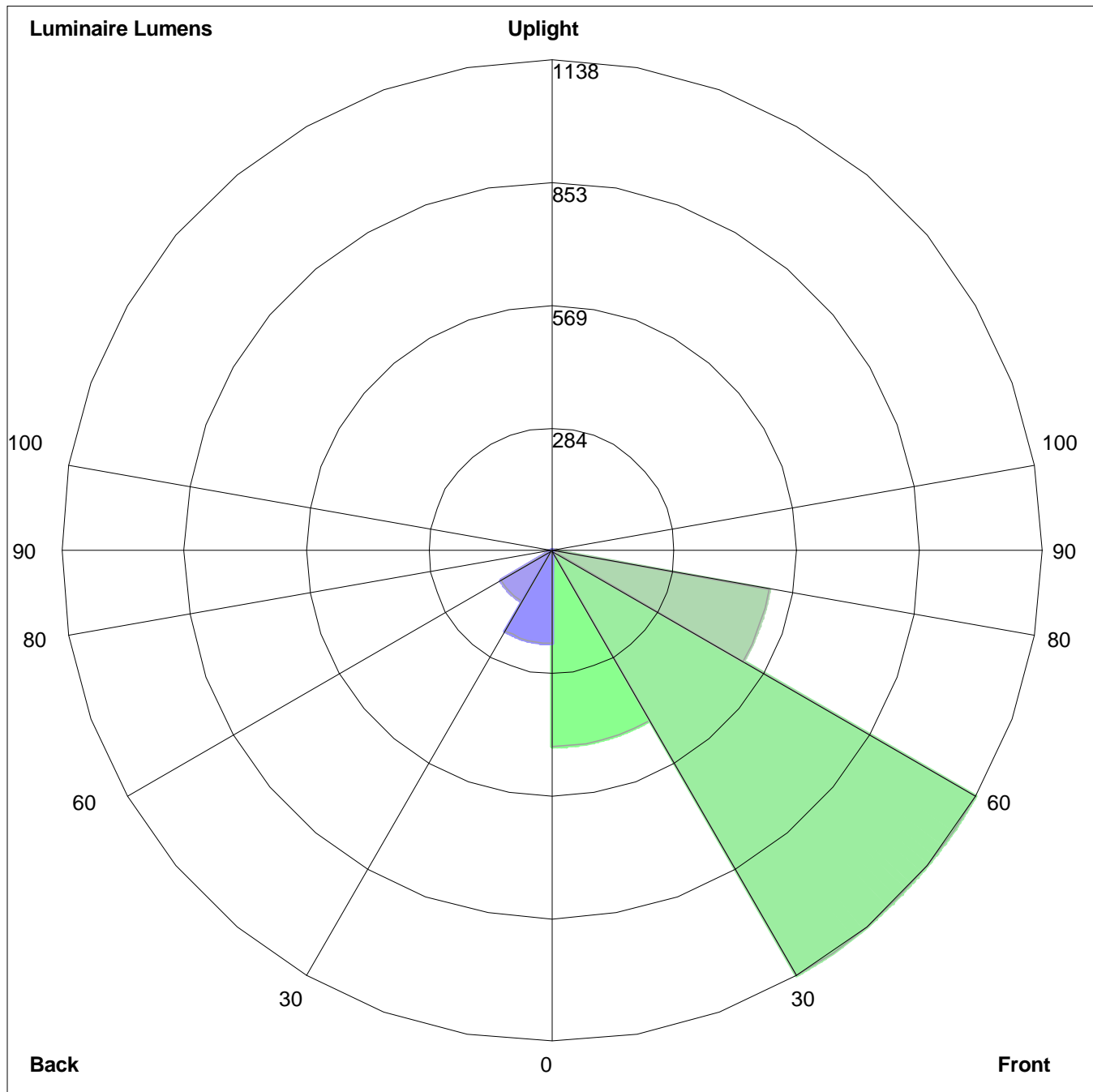


Maximum Candela = 1337.472 Located At Horizontal Angle = 0, Vertical Angle = 35
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (35) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE

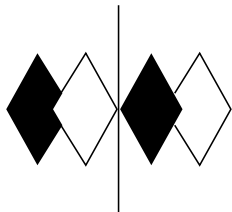


LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=454.1, Medium=1137.8, High=512.5, Very High=8.7
Back: Low=214.8, Medium=136.2, High=8.8, Very High=0.0
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G0



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INDEPENDENT TESTING LABORATORIES, INC.
4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

PHONE: (303)442-1255 • FAX: (970)535-3114 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

Page 1 of 4

REPORT NUMBER: ITL80289
DATE: 12/31/13
PREPARED FOR: RAB LIGHTING, INC.
CATALOG NUMBER: WPLED26 (WALLPACK) - ALED26 (AREA LIGHTER)

ADDRESS: 170 LUDLOW AVE
NORTHVALE, NJ 07647

LUMINAIRE: CAST FINNED METAL HOUSING, MACHINED METAL HEAT SINK, 1 CIRCUIT BOARD WITH 1 LED, MOLDED PLASTIC REFLECTOR WITH SEMI-SPECULAR FINISH, CLEAR FLAT GLASS LENS IN CAST BROWN PAINTED METAL FRAME.

LAMP: ONE WHITE MULTI-CHIP LIGHT EMITTING DIODE (LED), TILTED 33-DEGREES FROM VERTICAL BASE-UP POSITION.

DRIVER: RAB RD26S

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120.0 AND 277.0 VAC, 60Hz) TO THE LED DRIVER.

INSTRUMENTS:	Associated Power Technologies APT5010 AC Power Source	Calibration Due: N/A
	Yokogawa WT210 Digital Power Meter #6	10/31/14
	Ocean Optics QE65000 Spectroradiometer	10/17/14
	ITL 1.5m Diameter Integrating Sphere S15-2, 4PI Geometry	10/17/14

OBJECT OF TEST: Measure the Total Radiant Flux*, Spectral Power Distribution (SPD), Correlated Color Temperature (CCT), Color Rendering Indices (CRI_a,1-14), Chromaticity Coordinates (x,y; u'v'), ANSI C78.377 Duv, and electrical data including ANSI C82.77-2002 Power Factor (PF) and Total Harmonic Distortion (THD) to the test sample. Report Off-State Power. Measure electrical data including Total Harmonic Distortion (THD) at maximum rated voltage.

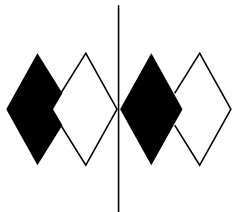
PROCEDURE: The test sample was provided by the customer and had an unknown number of operating hours. The test sample was mounted inside the integrating sphere and allowed to stabilize. After stabilization occurred, measurements were taken. In order to measure mean performance, multiple data sets were recorded and averaged. Readings were taken with the test sample operating at 120.0 VAC input. Electrical data was also recorded at maximum nominal rated input voltage (277.0 VAC). All testing performed in a 25 +/-1 degree Celsius free air ambient and in accordance with IESNA LM-79-08. All data are traceable to the National Institute of Standards and Technology. Off-State Power was reported with no voltage applied to the sample.

*NOTE: Proper calibration of integrating spheres for measuring total flux output of non-directional samples will produce reliable, repeatable results within the calibration tolerances of the equipment used. However, measurement of test samples with significant self absorption and/or directional output, even when these effects are compensated for, are likely to have a greater variation in results compared to the flux output calculated from a goniophotometric exploration since these artifacts do not affect the goniophotometric results.

RESULTS: (continued subsequent pages)

THIS ITL REPORT WITH THE USE OF THE NVLAP LOGO SHALL NOT BE USED BY THE CLIENT TO CLAIM PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY NVLAP, NIST, OR ANY AGENCY OF THE FEDERAL GOVERNMENT.

Checked	<i>N THOMAS</i>
Approved	<i>P O'CONNOR</i>
	SPHERE LAB SUPERVISOR



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NVLAP[®]
NVLAP LAB CODE: 200925-0

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4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

PHONE: (303)442-1255

FAX: (970)535-3114

E-MAIL: itl@itlboulder.com

WEBSITE: www.itlboulder.com

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REPORT NUMBER:

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DATE:

12/31/13

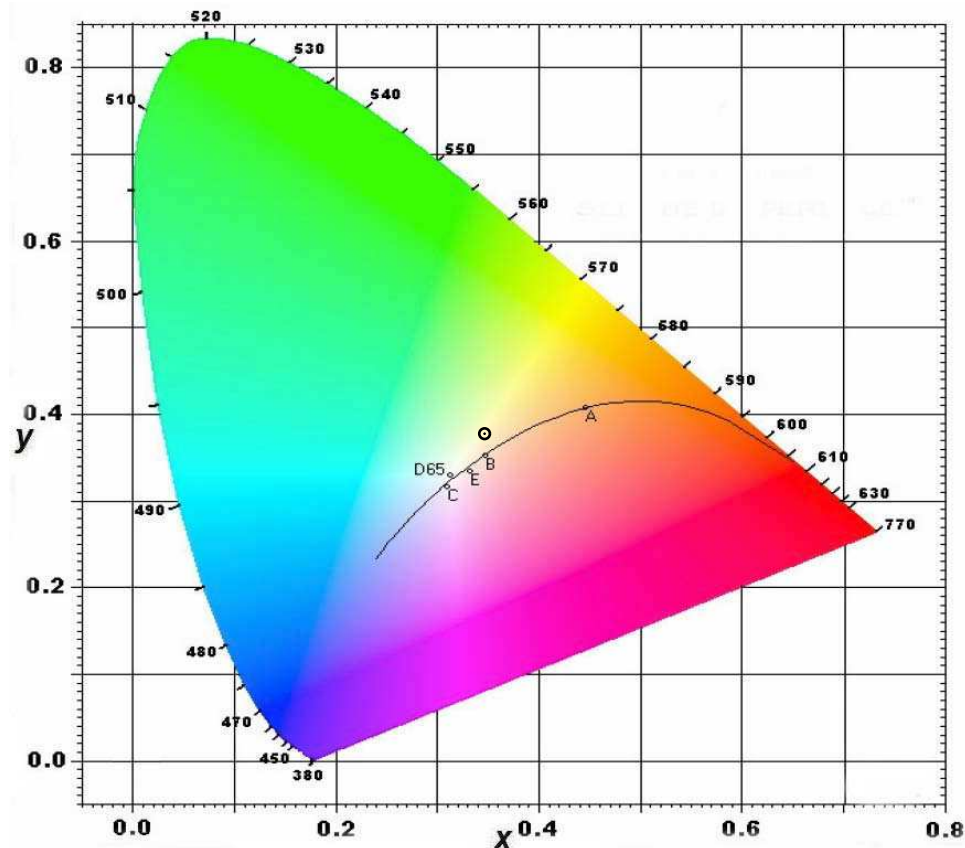
PREPARED FOR:

RAB LIGHTING, INC.

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CIE Chromaticity Diagram





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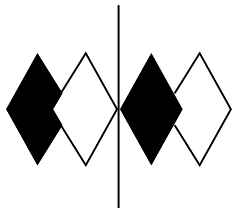
RESULTS:

SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.3463
Chromaticity Ordinate y	0.3772
Observer	CIE 1976 2 degree
Chromaticity Ordinate u'	0.2027
Chromaticity Ordinate v'	0.4968
Correlated Color Temp CCT (K)	5036
ANSI C78.377-2008 Duv	0.012
Total Radiant Flux (milliWatts)	7775 *
ELECTRICAL	
Input Voltage (Volts AC)	120.0
Input Current (Amps AC)	0.248
Input Power (Watts)	29.6
Input Power Factor (%)	99.5
Input Current THD (%)	7.5
Input Voltage THD (%)	0.3
Off-State Power (Watts)	
	0.0
ELECTRICAL AT MAX NONIMAL INPUT	
Input Voltage (Volts AC)	277.0
Input Current (Amps AC)	0.117
Input Power (Watts)	29.5
Input Power Factor (%)	91.0
Input Current THD (%)	11.0
Input Voltage THD (%)	0.2

COLOR RENDERING INDICES	CRI
Ra (Average 1-8)	70
R1 Light greyish red	65
R2 Dark greyish yellow	75
R3 Strong yellowish green	82
R4 Moderate yellowish green	68
R5 Light bluish green	65
R6 Light blue	65
R7 Light violet	84
R8 Light reddish purple	54
R9 Strong red	-39
R10 Strong yellow	40
R11 Strong green	62
R12 Strong blue	35
R13 Light yellowish pink (skin)	66
R14 Moderate olive green (leaf)	90

*NOTE:

Proper calibration of integrating spheres for measuring total flux output of non-directional samples will produce reliable, repeatable results within the calibration tolerances of the equipment used. However, measurement of test samples with significant self absorption and/or directional output, even when these effects are compensated for, are likely to have a greater variation in results compared to the flux output calculated from a goniophotometric exploration since these artifacts do not affect the goniophotometric results.



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NVLAP LAB CODE: 200925-0

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RESULTS:

Wavelength	mW per nm	Wavelength	mW per nm	Wavelength	mW per nm
380	0.238	515	28.536	650	16.669
385	0.267	520	33.506	655	15.119
390	0.312	525	37.550	660	13.692
395	0.388	530	40.686	665	12.365
400	0.523	535	42.874	670	11.139
405	0.886	540	44.315	675	10.029
410	1.483	545	45.202	680	9.014
415	2.582	550	45.625	685	8.082
420	4.541	555	45.685	690	7.243
425	7.550	560	45.499	695	6.482
430	12.045	565	45.041	700	5.807
435	18.285	570	44.324	705	5.197
440	26.437	575	43.401	710	4.632
445	38.129	580	42.253	715	4.148
450	52.012	585	40.884	720	3.700
455	55.925	590	39.425	725	3.307
460	43.729	595	37.745	730	2.953
465	29.582	600	35.879	735	2.639
470	20.865	605	33.958	740	2.355
475	15.052	610	31.968	745	2.102
480	11.132	615	29.922	750	1.880
485	9.425	620	27.858	755	1.681
490	9.376	625	25.822	760	1.511
495	10.707	630	23.837	765	1.349
500	13.595	635	21.899	770	1.213
505	17.957	640	20.059	775	1.083
510	23.183	645	18.312	780	0.974

