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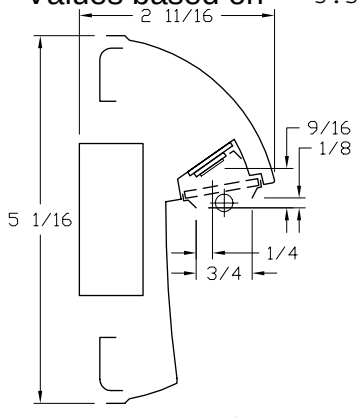
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955
INDEPENDENT TESTING LABORATORIES, INC.
3386 LONGHORN ROAD, BOULDER, CO 80302 USA
PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

NVLAP LAB CODE: 200925-0

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

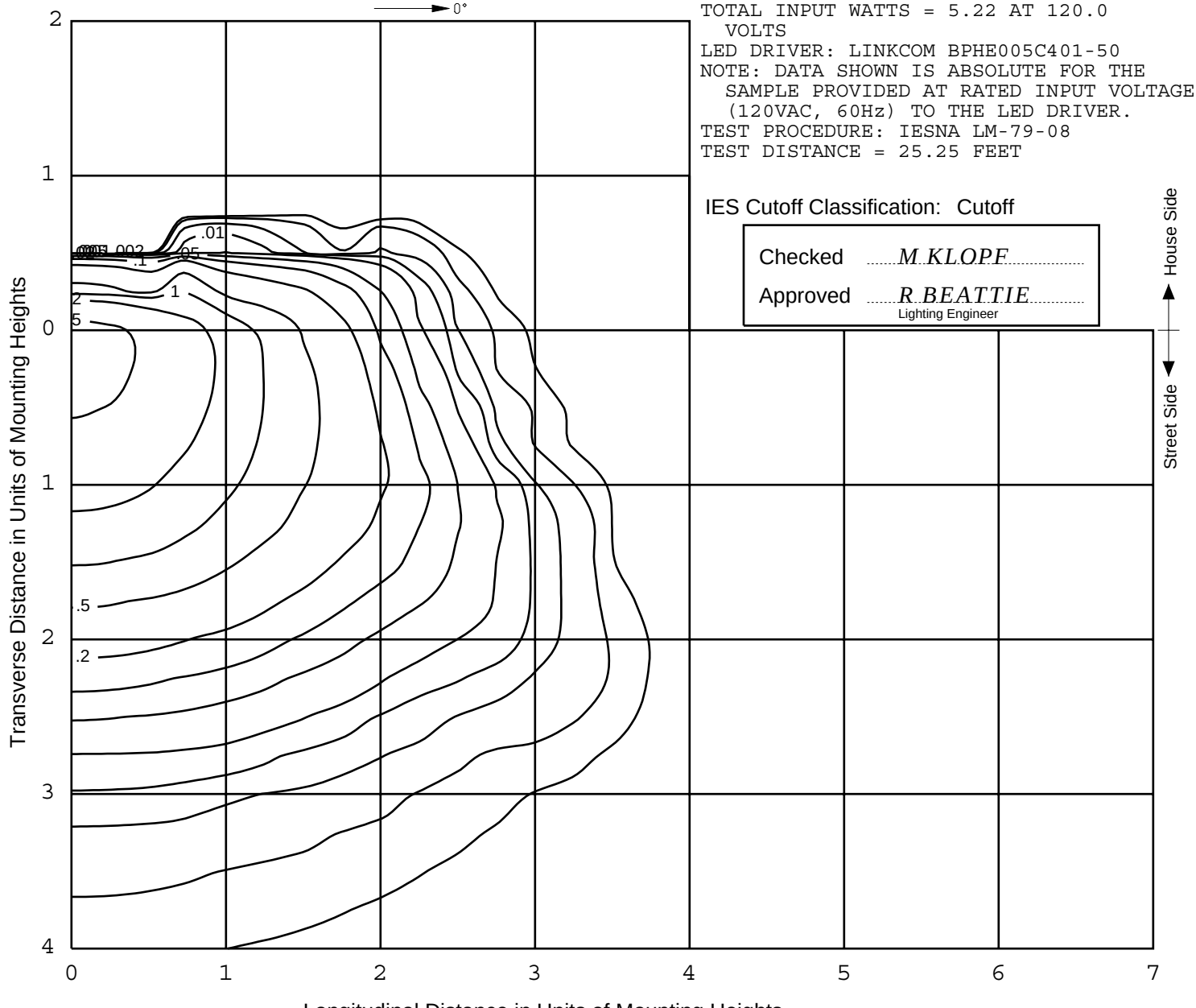
Values based on 3.5 foot mounting height.



REPORT NUMBER: ITL67887
ISSUE DATE: 03/22/11 PAGE: 1 OF 7
PREPARED FOR: RAB LIGHTING, INC.
CATALOG NUMBER: SLEDR5N-BLEDR5N
LUMINAIRE: CAST BROWN PAINTED METAL HOUSING WITH HORIZONTALLY GROOVED SURFACE BELOW APERTURE, ONE CIRCUIT BOARD WITH ONE LED, FORMED SEMI-SPECULAR METAL REFLECTOR, CLEAR GLASS LENS, FORMED BROWN PAINTED METAL LENS FRAME.
LAMP: ONE WHITE MULTI-CHIP LIGHT EMITTING DIODE (LED) WITH LEDS ARRANGED IN AN ARRAY OF THREE LINEAR ROWS, TILTED 35-DEGREES FROM VERTICAL BASE-UP POSITION.
TOTAL INPUT WATTS = 5.22 AT 120.0 VOLTS
LED DRIVER: LINKCOM BPHE005C401-50
NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE LED DRIVER.
TEST PROCEDURE: IESNA LM-79-08
TEST DISTANCE = 25.25 FEET

IES Cutoff Classification: Cutoff

Checked *M KLOPF*
Approved *R BEATTIE*
Lighting Engineer



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REPORT NUMBER: ITL67887
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PREPARED FOR: RAB LIGHTING, INC.
CATALOG NUMBER: SLEDR5N-BLEDR5N
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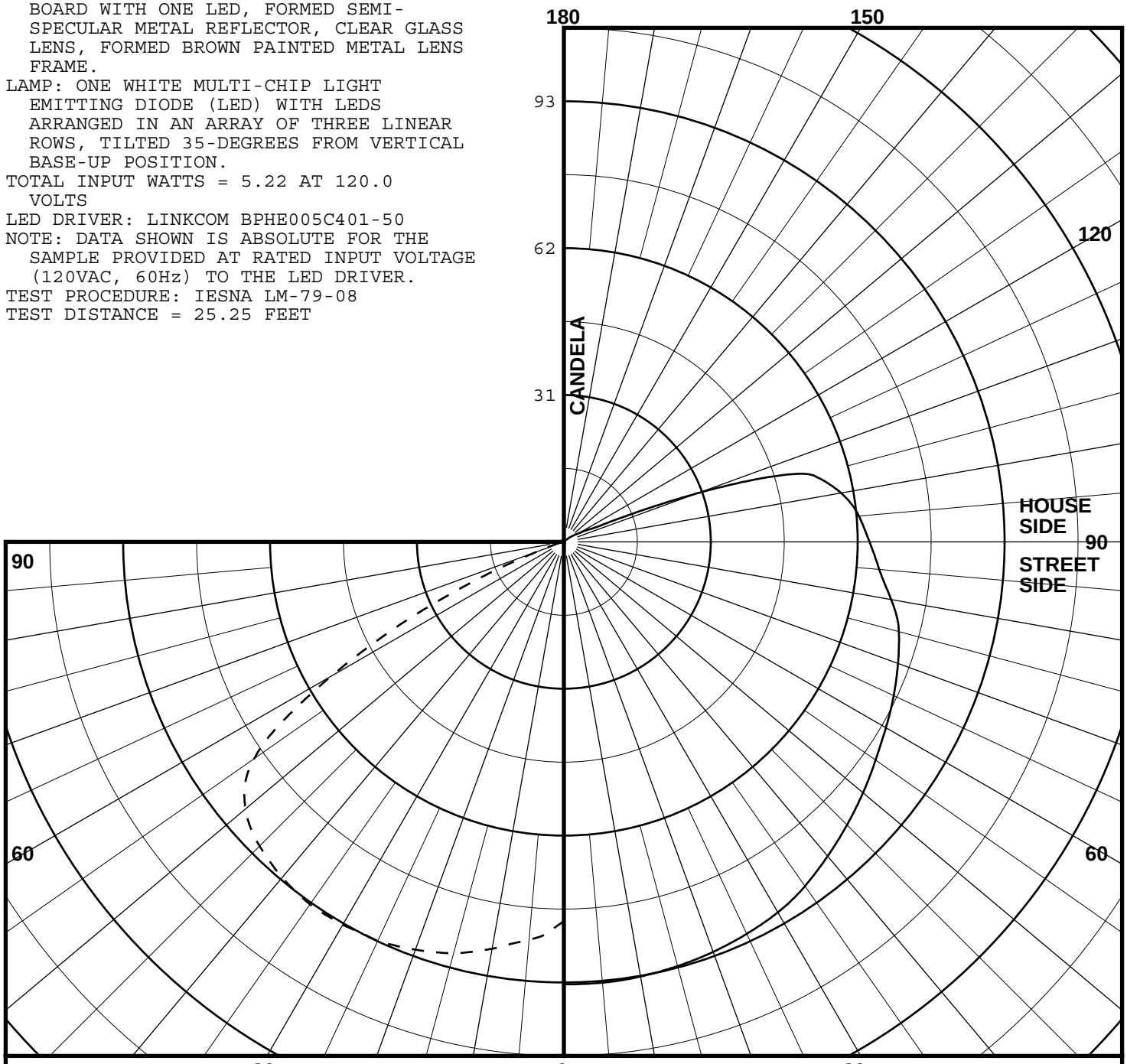
MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA



VERTICAL PLANE THROUGH MAXIMUM CANDELA
32.5 (Degrees Vertical)

CONE THROUGH MAXIMUM CANDELA
0.0 (Degrees Horizontal) = 93.4

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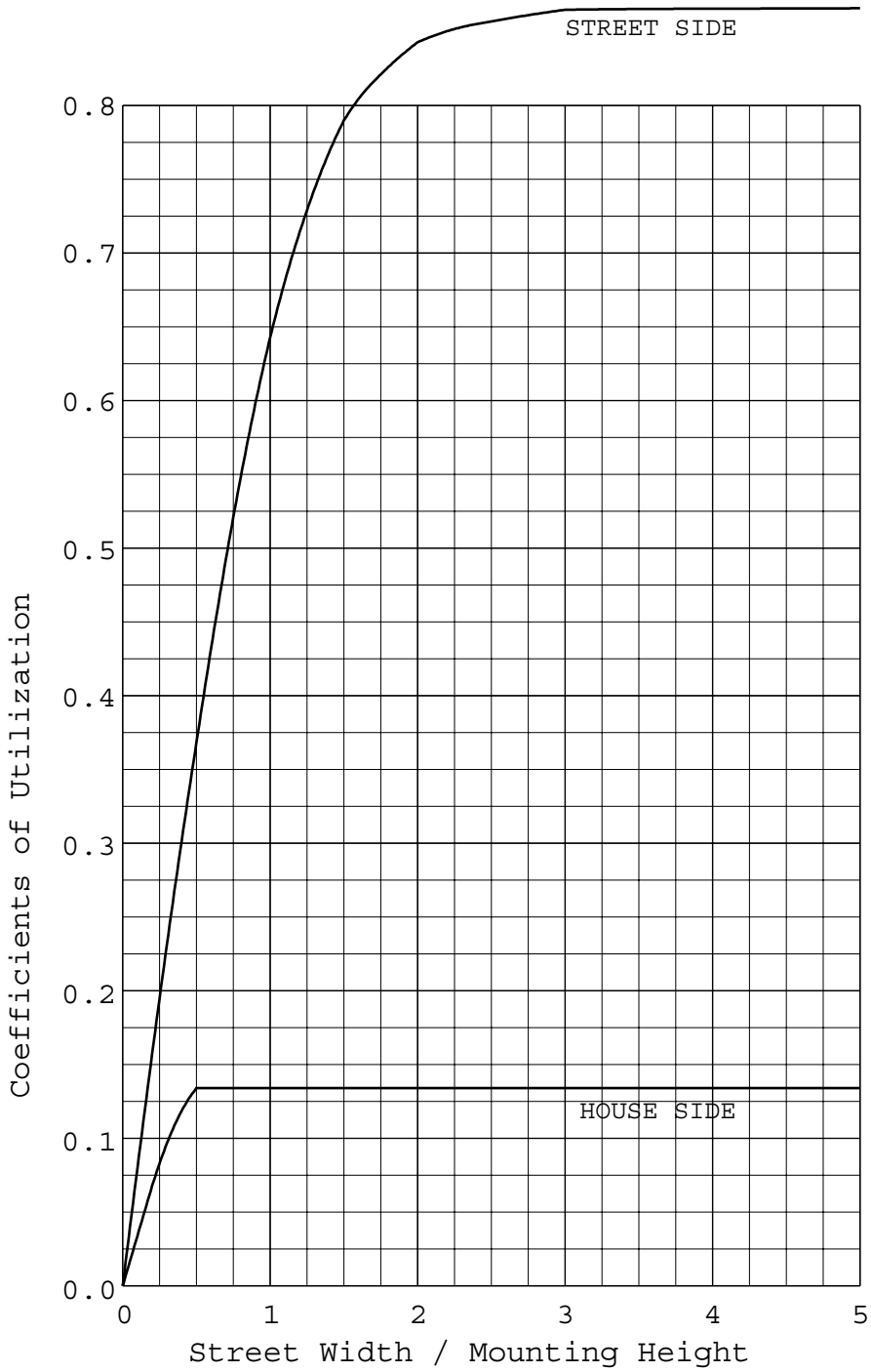
COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	137.5	86.3
DOWNWARD HOUSE SIDE	21.6	13.6
DOWNWARD TOTAL	159.1	99.9
UPWARD STREET SIDE	0.2	0.1
UPWARD HOUSE SIDE	0.0	0.0
UPWARD TOTAL	0.2	0.1
TOTAL FLUX	159.3	100.0

EFFICACY = 30.5 Lm/W

ALL CANDELA AND LUMENS IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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FLUX DISTRIBUTION BY SOLID ANGLE

(PER IESNA TM-15-07, LUMINAIRE CLASSIFICATION SYSTEM FOR OUTDOOR LUMINAIRES)

	LUMENS	PERCENT OF FIXTURE	BUG ZONE RATINGS
FORWARD LIGHT	137.5	86.3	
FL (0- 30)	35.6	22.4	
FM (30- 60)	84.4	53.0	
FH (60- 80)	17.3	10.9	G0
FVH(80- 90)	0.2	0.1	U0 G0
BACK LIGHT	21.6	13.6	
BL (0- 30)	12.9	8.1	B0
BM (30- 60)	8.3	5.2	B0
BH (60- 80)	0.4	0.3	B0 G0
BVH(80- 90)	0.0	0.0	U0 G0
UPLIGHT	0.2	0.1	
UL (90-100)	0.1	0.1	U1
UH (100-180)	0.1	0.1	U1
TRAPPED LIGHT	0.0	0.0	
TOTAL FLUX	159.3	100.0	

BACKLIGHT, UPLIGHT, AND GLARE (BUG) RATINGS
(PER ADDENDUM A FOR IESNA TM-15-07)

BUG RATING: B0 U1 G0

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NVLAP LAB CODE: 200925-0

REPORT NUMBER: ITL67887 PAGE: 5 OF 7
ISSUE DATE: 03/22/11
PREPARED FOR: RAB LIGHTING, INC.

CANDELA TABULATION

	STREET SIDE	LATERAL ANGLE									
		0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	85.0	90.0
		||										
	180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	145.0	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	135.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	125.0	0.3	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	115.0	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	105.0	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	95.0	0.4	0.4	0.4	0.3	0.3	0.1	0.0	0.0	0.0	0.0	0.0
	92.5	0.5	0.5	0.4	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0
	90.0	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.0	0.0	0.0	0.0
	87.5	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.0	0.0	0.0	0.0
	85.0	0.6	0.6	0.5	0.4	0.4	0.3	0.2	0.1	0.0	0.0	0.0
V	82.5	0.7	0.7	0.6	0.5	0.5	0.3	0.3	0.1	0.1	0.1	0.0
E	80.0	0.7	0.7	0.6	0.6	0.6	0.5	0.4	0.3	0.1	0.1	0.1
R	77.5	0.9	0.8	0.8	0.8	0.8	0.7	0.9	0.5	0.2	0.1	0.1
T	75.0	1.2	1.2	1.1	1.2	1.3	1.6	3.7	0.9	0.4	0.2	0.1
I	72.5	2.2	2.2	2.3	2.7	3.8	5.8	11.8	5.4	0.6	0.3	0.2
C	70.0	5.8	5.9	6.6	8.5	11.8	16.0	22.8	17.5	2.2	0.6	0.5
A	67.5	15.5	15.5	16.9	19.9	24.1	28.9	34.9	32.0	10.0	2.1	1.5
L	65.0	28.3	28.5	30.2	33.5	37.9	42.5	46.2	42.0	23.2	9.0	5.8
	62.5	42.6	42.6	44.4	47.8	51.8	54.9	53.5	46.7	34.7	20.3	15.2
A	60.0	56.7	56.8	58.8	61.7	64.1	63.1	57.9	50.3	41.7	30.3	24.8
N	57.5	70.2	70.4	72.0	73.2	72.0	67.7	61.3	53.7	46.2	36.3	31.8
G	55.0	79.8	80.0	80.4	79.5	76.0	70.7	64.0	56.6	50.0	40.1	35.9
L	52.5	84.9	84.9	84.8	83.2	78.7	73.1	66.6	59.4	53.7	43.4	39.4
E	50.0	87.7	87.6	87.3	86.1	81.1	75.4	69.1	62.2	57.5	46.7	42.9
	47.5	89.6	89.6	89.0	88.1	83.2	77.3	71.3	64.8	60.7	49.9	46.6
	45.0	90.8	90.7	90.1	89.3	85.0	79.1	73.2	67.0	63.5	53.1	50.3
	42.5	91.7	91.7	91.1	90.0	86.3	80.6	75.0	69.2	66.1	56.3	53.7
	40.0	92.5	92.6	91.9	90.6	87.5	82.0	76.7	71.3	68.3	59.3	56.8
	37.5	93.0	93.0	92.3	90.9	88.1	83.1	78.0	73.1	70.2	62.0	59.5
	35.0	93.4	93.2	92.5	91.2	88.5	83.8	79.2	75.0	71.8	64.5	62.1
	32.5<<	93.4	93.4	92.7	91.3	88.7	84.5	80.3	76.8	73.2	66.8	64.5
	30.0 |	93.3	93.2	92.6	91.1	88.8	85.1	81.2	78.4	74.2	68.7	66.7
	25.0 |	92.9	92.8	92.1	90.9	89.1	86.3	83.3	81.8	76.4	72.3	70.6
	20.0 |	91.6	91.5	91.1	90.2	88.9	86.8	84.4	82.5	78.1	75.1	73.7
	15.0 |	89.9	89.9	89.5	88.7	87.8	86.5	84.5	82.1	79.7	77.4	76.3
	10.0 |	87.2	87.3	86.9	86.5	85.6	84.6	83.4	82.0	80.5	79.0	78.2
	5.0 |	84.3	84.3	84.1	83.8	83.4	82.8	82.1	81.4	80.7	79.9	79.5
	0.0 |	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	|	||										
	|	PLANE OF MAXIMUM CANDELA										
	|											
	CONE OF MAXIMUM CANDELA											

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CANDELA TABULATION

	HOUSE SIDE / LATERAL ANGLE	95.0	105.0	115.0	125.0	135.0	145.0	155.0	165.0	175.0	180.0
	180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	92.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	87.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	85.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	82.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R	77.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
T	75.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I	72.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	70.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A	67.5	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L	65.0	4.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	62.5	12.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A	60.0	20.1	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	57.5	27.0	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G	55.0	31.5	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L	52.5	35.2	2.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	50.0	38.9	3.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	47.5	42.9	7.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	45.0	47.1	12.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	42.5	50.9	19.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	40.0	54.2	27.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	37.5	57.2	36.7	5.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	35.0	60.0	46.1	6.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
	32.5<<	62.5	54.4	6.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0
	30.0 |	64.8	59.6	7.5	4.7	0.1	0.0	0.0	0.0	0.0	0.0
	25.0 |	69.0	65.4	16.4	7.9	2.5	0.2	0.0	0.0	0.0	0.0
	20.0 |	72.5	69.7	56.8	9.3	8.4	5.4	0.4	0.2	0.2	0.2
	15.0 |	75.3	73.3	71.1	54.1	13.0	9.1	8.9	8.7	8.3	8.3
	10.0 |	77.5	76.1	74.8	73.5	72.2	64.6	46.7	32.8	25.9	25.0
	5.0 |	79.1	78.3	77.7	77.1	76.6	76.1	75.7	75.5	75.4	75.3
	0.0 |	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0

CONE OF MAXIMUM CANDELA

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REPORT NUMBER: ITL67907
DATE: 04/05/11
PREPARED FOR: RAB LIGHTING, INC.

ADDRESS: 170 LUDLOW AVE
NORTHVALE, NJ 07647

CATALOG NUMBER: SLEDR5N-BLEDR5N

LUMINAIRE: CAST BROWN PAINTED METAL HOUSING WITH HORIZONTALLY GROOVED SURFACE BELOW APERTURE, ONE CIRCUIT BOARD WITH ONE LED, FORMED SEMI-SPECULAR METAL REFLECTOR, CLEAR GLASS LENS, FORMED BROWN PAINTED METAL LENS FRAME.

LAMPS: ONE WHITE MULTI-CHIP LIGHT EMITTING DIODE (LED) WITH LEDS ARRANGED IN AN ARRAY OF THREE LINEAR ROWS, TILTED 35-DEGREES FROM VERTICAL BASE-UP POSITION.

DRIVER: LINKCOM BPHE005C401-50

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60HZ) TO THE LED DRIVER.

INSTRUMENTS: Kikusui PCR500L AC Power Source
Yokogawa WT210 Digital Power Meter
Optronic Laboratories OL770 Spectroradiometer
ITL 1.5 Meter Diameter Integrating Sphere, 4π Geometry

OBJECT OF TEST: Measure the Total Radiant Flux, Spectral Power Distribution (SPD), Correlated Color Temperature (CCT), Color Rendering Indices (CRIa,9), Chromaticity Coordinates (x,y; u',v'), ANSI C78.377 Duv, and electrical data including Power Factor (PF), Total Harmonic Distortion (THD) and Off-State Power to the luminaire.

PROCEDURE: The luminaire was provided by the customer and had an unknown number of burn hours. The luminaire was mounted inside the integrating sphere in a vertical position (see luminaire description for LED orientation). The luminaire was allowed to stabilize at 120VAC input. After stabilization occurred, Total Radiant Flux, Spectral Power Distribution (SPD), Correlated Color Temperature (CCT), Color Rendering Indices (CRIa,9), Chromaticity Coordinates (x,y; u',v'), ANSI C78.377 Duv, and electrical data including Power Factor (PF) and Total Harmonic Distortion (THD) were measured with the luminaire operating in the integrating sphere. In order to measure mean performance, multiple data sets were recorded and averaged. Readings were taken with the luminaire operating at 120VAC input 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 is reported with no voltage applied to the luminaire.

RESULTS: (continued subsequent pages)

Checked *N Gully*
Approved *R Bergin*
Lighting Engineer

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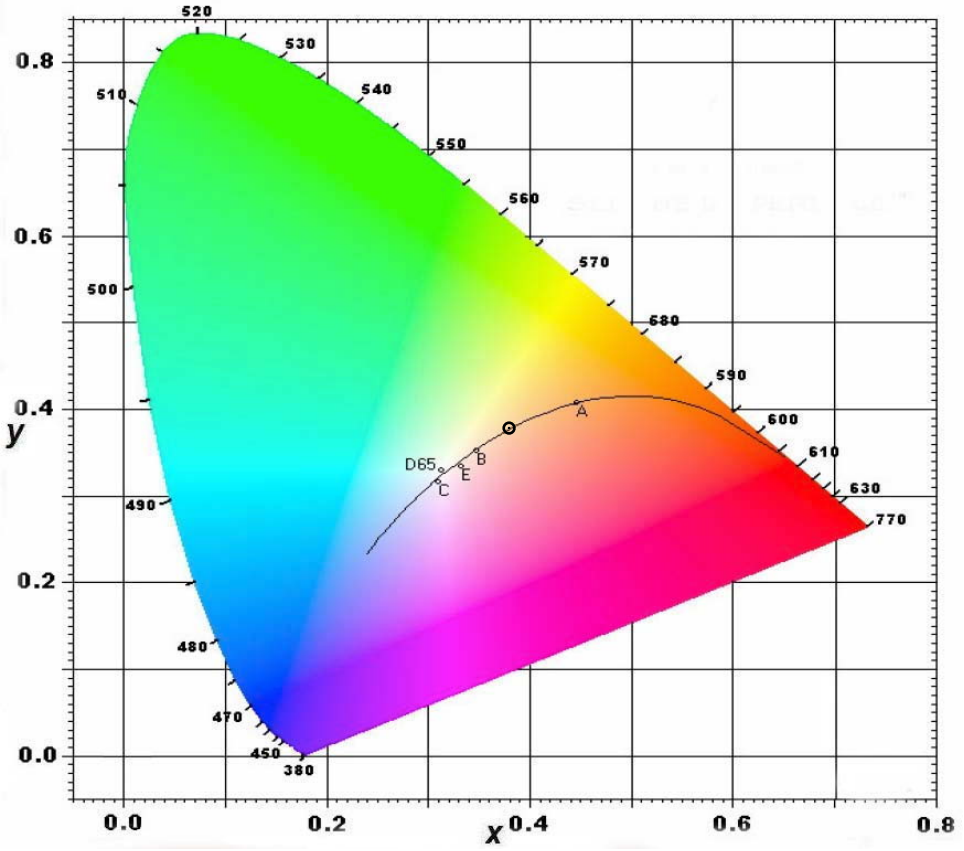
RESULTS:

CIE Chromaticity Diagram



SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.3793
Chromaticity Ordinate y	0.3779
Chromaticity Ordinate u'	0.2239
Chromaticity Ordinate v'	0.5019
Correlated Color Temp CCT (K)	4039
Color Rendering Index (CRIa)	85
Color Rendering Index 9 (Strong red)	46
Total Radiant Flux (milliWatts)	535
ANSI C78.377-2008 Duv	0.001
ELECTRICAL	
Input Voltage (Volts AC)	120.0
Input Current (mA AC)	100.0
Input Power (Watts)	5.21
Input Power Factor (%)	43.4
Input Current THD (%)	200.9
Input Voltage THD (%)	0.1
Off State Power (Watts)	0.0

itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955
NVLAP LAB CODE: 200925-0
INDEPENDENT TESTING LABORATORIES, INC.
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REPORT NUMBER: ITL67907
DATE: 04/05/11
PREPARED FOR: RAB LIGHTING, INC.
CATALOG NUMBER: SLEDR5N-BLEDR5N

RESULTS:

Wavelength	mW per nm	Wavelength	mW per nm	Wavelength	mW per nm
380	0.045	515	1.736	650	1.968
385	0.041	520	1.888	655	1.864
390	0.042	525	2.025	660	1.752
395	0.045	530	2.136	665	1.627
400	0.050	535	2.207	670	1.506
405	0.060	540	2.280	675	1.374
410	0.078	545	2.337	680	1.255
415	0.109	550	2.386	685	1.137
420	0.166	555	2.422	690	1.025
425	0.286	560	2.449	695	0.916
430	0.513	565	2.468	700	0.814
435	0.889	570	2.478	705	0.720
440	1.507	575	2.481	710	0.633
445	2.508	580	2.478	715	0.553
450	3.168	585	2.470	720	0.482
455	2.570	590	2.460	725	0.420
460	1.722	595	2.451	730	0.365
465	1.295	600	2.441	735	0.316
470	0.980	605	2.429	740	0.272
475	0.747	610	2.415	745	0.234
480	0.669	615	2.394	750	0.202
485	0.685	620	2.367	755	0.174
490	0.766	625	2.331	760	0.150
495	0.920	630	2.285	765	0.128
500	1.124	635	2.224	770	0.110
505	1.338	640	2.153	775	0.095
510	1.541	645	2.062	780	0.081