

Performance Retrofit Downlights



6-Inch 12W CRI80

Photometric Data Commercial DL round

Commercial DL 6''_12W_CRI80_3000K		(C6R12830UNVW)	
Product Key Parameter			
Input Voltage(VAC)		120	
System Level Power(W)		10.8	
Delivered Lumens(Lm)		1063.9	
System efficacy(Lm/W)		98.5	
CCT(K)		3040	
Color Rendering Index(CRI)		83.2	
Beam Angle(°)		86.6	
Spacing Criteria		5	
Note: Use LM-79 testing data			
Light distribution photo		Intensity Summary	
<p>UNIT: cd — C0/180, 86.6 — C90/270, 86.5 AVERAGE BEAM ANGLE (50%): 86.6 DEG</p>		Angle(°)	Mean CP
		0	514
		5	509
		15	478
		25	418
		35	339
		45	238
		55	141
		65	68.2
		75	27.1
85	11.5		
90	5.8		
CCT Data Multiplier			
2700K		/	
3000K		1.000	
3500K		1.005	
4000K		1.073	
5000K		/	
		Cone of Light Tabulation	
Mounted Height (Feet)	Footcandles Beam Center	Diameter (Feet)	
2	128.6	3.8	
4	32.1	7.5	
6	14.3	11.3	
8	8.3	15.1	
10	5.1	18.8	
12	3.6	22.6	
14	2.6	26.4	
16	2.0	30.1	
Zonal Lumen Summary			
Zone(°)	Lumen	% of Luminaire	
0-30	376	35.3%	
0-60	902	84.8%	
0-90	1017	95.6%	
0-120	1037	97.5%	
120-180	27	2.5%	
0-180	1064	100.0%	

Performance Retrofit Downlights



6-Inch 12W CRI90

EM Commercial DL 6''_12W_CRI90_3000K		(C6R12930UNVW)																											
Product Key Parameter																													
Input Voltage(VAC)	120																												
System Level Power(W)	10.2																												
Delivered Lumens(Lm)	934.2																												
System efficacy(Lm/W)	91.58																												
CCT(K)	3011																												
Colour Rendering Index(CRI)	92.4																												
Beam Angle(°)	85.6																												
Spacing Criteria	5																												
Note: Use LM-79 testing data																													
Light distribution photo		Intensity Summary																											
<p>UNIT: cd C0/180, 85.6 C90/270, 85.6 AVERAGE BEAM ANGLE (50%): 85.6 DEG</p>		<table border="1"> <thead> <tr> <th>Angle(°)</th> <th>Mean CP</th> </tr> </thead> <tbody> <tr><td>0</td><td>459</td></tr> <tr><td>5</td><td>455</td></tr> <tr><td>15</td><td>427</td></tr> <tr><td>25</td><td>373</td></tr> <tr><td>35</td><td>301</td></tr> <tr><td>45</td><td>208</td></tr> <tr><td>55</td><td>120</td></tr> <tr><td>65</td><td>58.1</td></tr> <tr><td>75</td><td>23.6</td></tr> <tr><td>85</td><td>10</td></tr> <tr><td>90</td><td>5</td></tr> </tbody> </table>	Angle(°)	Mean CP	0	459	5	455	15	427	25	373	35	301	45	208	55	120	65	58.1	75	23.6	85	10	90	5			
Angle(°)	Mean CP																												
0	459																												
5	455																												
15	427																												
25	373																												
35	301																												
45	208																												
55	120																												
65	58.1																												
75	23.6																												
85	10																												
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CCT Data Multiplier		Cone of Light Tabulation																											
2700K	/	<table border="1"> <thead> <tr> <th>Mounted Height (Feet)</th> <th>Footcandles Beam Center</th> <th>Diameter (Feet)</th> </tr> </thead> <tbody> <tr><td>2</td><td>114.8</td><td>3.7</td></tr> <tr><td>4</td><td>28.7</td><td>7.4</td></tr> <tr><td>6</td><td>12.8</td><td>11.1</td></tr> <tr><td>8</td><td>7.2</td><td>14.8</td></tr> <tr><td>10</td><td>4.6</td><td>18.5</td></tr> <tr><td>12</td><td>3.2</td><td>22.2</td></tr> <tr><td>14</td><td>2.3</td><td>25.9</td></tr> <tr><td>16</td><td>1.8</td><td>33.3</td></tr> </tbody> </table>	Mounted Height (Feet)	Footcandles Beam Center	Diameter (Feet)	2	114.8	3.7	4	28.7	7.4	6	12.8	11.1	8	7.2	14.8	10	4.6	18.5	12	3.2	22.2	14	2.3	25.9	16	1.8	33.3
Mounted Height (Feet)	Footcandles Beam Center	Diameter (Feet)																											
2	114.8	3.7																											
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16	1.8	33.3																											
3000K	1.000	Zonal Lumen Summary																											
3500K	0.988	<table border="1"> <thead> <tr> <th>Zone(°)</th> <th>Lumen</th> <th>% of Luminaire</th> </tr> </thead> <tbody> <tr><td>0-30</td><td>335</td><td>35.9%</td></tr> <tr><td>0-60</td><td>794</td><td>85.0%</td></tr> <tr><td>0-90</td><td>893</td><td>95.6%</td></tr> <tr><td>0-120</td><td>910</td><td>97.5%</td></tr> <tr><td>120-180</td><td>24</td><td>2.5%</td></tr> <tr><td>0-180</td><td>934</td><td>100.0%</td></tr> </tbody> </table>	Zone(°)	Lumen	% of Luminaire	0-30	335	35.9%	0-60	794	85.0%	0-90	893	95.6%	0-120	910	97.5%	120-180	24	2.5%	0-180	934	100.0%						
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120-180	24	2.5%																											
0-180	934	100.0%																											
4000K	1.087																												
5000K	/																												

Performance Retrofit Downlights



6-Inch 18W CRI80

Commercial DL 6" _18W_ CRI80_3000K		(C6R18830UNVW)																											
Product Key Parameter																													
Input Voltage(VAC)	120																												
System Level Power(W)	16.3																												
Delivered Lumens(Lm)	1712.5																												
System efficacy(Lm/W)	105.1																												
CCT(K)	3044																												
Color Rendering Index(CRI)	83.5																												
Beam Angle(°)	86.6																												
Spacing Criteria	5																												
Note: Use LM-79 testing data																													
Light distribution photo		Intensity Summary																											
<p>UNIT:cd C0/180, 86.6 C90/270, 86.6 AVERAGE BEAM ANGLE (50%): 86.6 DEG</p>		<table border="1"> <thead> <tr> <th>Angle(°)</th> <th>Mean CP</th> </tr> </thead> <tbody> <tr><td>0</td><td>826</td></tr> <tr><td>5</td><td>818</td></tr> <tr><td>15</td><td>762</td></tr> <tr><td>25</td><td>664</td></tr> <tr><td>35</td><td>540</td></tr> <tr><td>45</td><td>383</td></tr> <tr><td>55</td><td>234</td></tr> <tr><td>65</td><td>115</td></tr> <tr><td>75</td><td>43.9</td></tr> <tr><td>85</td><td>19.1</td></tr> <tr><td>90</td><td>9.4</td></tr> </tbody> </table>	Angle(°)	Mean CP	0	826	5	818	15	762	25	664	35	540	45	383	55	234	65	115	75	43.9	85	19.1	90	9.4			
Angle(°)	Mean CP																												
0	826																												
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CCT Data Multiplier		Cone of Light Tabulation																											
2700K	/	<table border="1"> <thead> <tr> <th>Mounted Height (Feet)</th> <th>Footcandles Beam Center</th> <th>Diameter (Feet)</th> </tr> </thead> <tbody> <tr><td>2</td><td>206.5</td><td>3.8</td></tr> <tr><td>4</td><td>51.6</td><td>7.5</td></tr> <tr><td>6</td><td>22.9</td><td>11.3</td></tr> <tr><td>8</td><td>12.9</td><td>15.1</td></tr> <tr><td>10</td><td>8.3</td><td>18.8</td></tr> <tr><td>12</td><td>5.7</td><td>22.6</td></tr> <tr><td>14</td><td>4.2</td><td>26.4</td></tr> <tr><td>16</td><td>3.2</td><td>30.1</td></tr> </tbody> </table>	Mounted Height (Feet)	Footcandles Beam Center	Diameter (Feet)	2	206.5	3.8	4	51.6	7.5	6	22.9	11.3	8	12.9	15.1	10	8.3	18.8	12	5.7	22.6	14	4.2	26.4	16	3.2	30.1
Mounted Height (Feet)	Footcandles Beam Center	Diameter (Feet)																											
2	206.5	3.8																											
4	51.6	7.5																											
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12	5.7	22.6																											
14	4.2	26.4																											
16	3.2	30.1																											
3000K	1.000	Zonal Lumen Summary																											
3500K	1.004	<table border="1"> <thead> <tr> <th>Zone(°)</th> <th>Lumen</th> <th>% of Luminaire</th> </tr> </thead> <tbody> <tr><td>0-30</td><td>600</td><td>35.0%</td></tr> <tr><td>0-60</td><td>1447</td><td>84.5%</td></tr> <tr><td>0-90</td><td>1638</td><td>95.7%</td></tr> <tr><td>0-120</td><td>1669</td><td>97.5%</td></tr> <tr><td>120-180</td><td>43</td><td>2.5%</td></tr> <tr><td>0-180</td><td>1713</td><td>100.0%</td></tr> </tbody> </table>	Zone(°)	Lumen	% of Luminaire	0-30	600	35.0%	0-60	1447	84.5%	0-90	1638	95.7%	0-120	1669	97.5%	120-180	43	2.5%	0-180	1713	100.0%						
Zone(°)	Lumen	% of Luminaire																											
0-30	600	35.0%																											
0-60	1447	84.5%																											
0-90	1638	95.7%																											
0-120	1669	97.5%																											
120-180	43	2.5%																											
0-180	1713	100.0%																											
4000K	1.083																												
5000K	/																												

Performance Retrofit Downlights



6-Inch 18W CRI90

EM Commercial DL 6" _18W_ CRI90_ 3000K		(C6R18930UNVW)																								
Product Key Parameter																										
Input Voltage(VAC)	120																									
System Level Power(W)	16.8																									
Delivered Lumens(Lm)	1510.2																									
System efficacy(Lm/W)	89.9																									
CCT(K)	3015																									
Color Rendering Index(CRI)	92.5																									
Beam Angle(°)	87.2																									
Spacing Criteria	5																									
Note: Use LM-79 testing data																										
Light distribution photo		Intensity Summary																								
<p>UNIT:cd C0/180, 87.2 C90/270, 87.2 AVERAGE BEAM ANGLE(50%): 87.2 DEG</p>		<table border="1"> <thead> <tr> <th>Angle(°)</th> <th>Mean CP</th> </tr> </thead> <tbody> <tr><td>0</td><td>723</td></tr> <tr><td>5</td><td>716</td></tr> <tr><td>15</td><td>669</td></tr> <tr><td>25</td><td>585</td></tr> <tr><td>35</td><td>477</td></tr> <tr><td>45</td><td>340</td></tr> <tr><td>55</td><td>209</td></tr> <tr><td>65</td><td>102</td></tr> <tr><td>75</td><td>38.5</td></tr> <tr><td>85</td><td>16.7</td></tr> <tr><td>90</td><td>8.3</td></tr> </tbody> </table>	Angle(°)	Mean CP	0	723	5	716	15	669	25	585	35	477	45	340	55	209	65	102	75	38.5	85	16.7	90	8.3
Angle(°)	Mean CP																									
0	723																									
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CCT Data Multiplier																										
2700K	/																									
3000K	1.000																									
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4000K	1.080																									
5000K	/																									
		Cone of Light Tabulation																								
Mounted Height (Feet)	Footcandles Beam Center	Diameter (Feet)																								
2	180.8	3.8																								
4	45.2	7.6																								
6	20.1	11.4																								
8	11.3	15.2																								
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Zonal Lumen Summary																										
Zone(°)	Lumen	% of Luminaire																								
0-30	525	34.8%																								
0-60	1274	84.4%																								
0-90	1445	95.7%																								
0-120	1472	97.5%																								
120-180	38	2.5%																								
0-180	1510	100.0%																								

Performance Retrofit Downlights



8-Inch 24W CRI80

Commercial DL 8" 24W_CRI80_3000K		(C8R24830UNVW)																																																							
Product Key Parameter																																																									
Input Voltage(VAC)	120																																																								
System Level Power(W)	21.6																																																								
Delivered Lumens(Lm)	2336.5																																																								
System efficacy(Lm/W)	108.17																																																								
CCT(K)	3054																																																								
Colour Rendering Index(CRI)	829																																																								
Beam Angle(°)	89.8																																																								
Spacing Criteria	5																																																								
Note: Use LM-79 testing data																																																									
Light distribution photo		Intensity Summary																																																							
<p>UNIT: cd C0/180, 89.7 C90/270, 89.8 AVERAGE BEAM ANGLE (50%): 89.8 DEG</p>		<table border="1"> <thead> <tr> <th>Angle(°)</th> <th>Mean CP</th> </tr> </thead> <tbody> <tr><td>0</td><td>1118</td></tr> <tr><td>5</td><td>1109</td></tr> <tr><td>15</td><td>1047</td></tr> <tr><td>25</td><td>930</td></tr> <tr><td>35</td><td>782</td></tr> <tr><td>45</td><td>551</td></tr> <tr><td>55</td><td>295</td></tr> <tr><td>65</td><td>126</td></tr> <tr><td>75</td><td>64.2</td></tr> <tr><td>85</td><td>25.8</td></tr> <tr><td>90</td><td>12.5</td></tr> </tbody> </table>	Angle(°)	Mean CP	0	1118	5	1109	15	1047	25	930	35	782	45	551	55	295	65	126	75	64.2	85	25.8	90	12.5	<table border="1"> <thead> <tr> <th colspan="3">Cone of Light Tabulation</th> </tr> <tr> <th>Mounted Height (Feet)</th> <th>Footcandles Beam Center</th> <th>Diameter (Feet)</th> </tr> </thead> <tbody> <tr><td>2</td><td>279.4</td><td>4.0</td></tr> <tr><td>4</td><td>69.9</td><td>7.9</td></tr> <tr><td>6</td><td>31.1</td><td>11.9</td></tr> <tr><td>8</td><td>17.5</td><td>15.8</td></tr> <tr><td>10</td><td>11.2</td><td>19.8</td></tr> <tr><td>12</td><td>7.8</td><td>23.8</td></tr> <tr><td>14</td><td>5.7</td><td>27.7</td></tr> <tr><td>16</td><td>4.4</td><td>31.7</td></tr> </tbody> </table>	Cone of Light Tabulation			Mounted Height (Feet)	Footcandles Beam Center	Diameter (Feet)	2	279.4	4.0	4	69.9	7.9	6	31.1	11.9	8	17.5	15.8	10	11.2	19.8	12	7.8	23.8	14	5.7	27.7	16	4.4	31.7
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CCT Data Multiplier		Zonal Lumen Summary																																																							
2700K	/	Zone(°)	Lumen																																																						
3000K	1.000	0-30	825																																																						
3500K	1.005	0-60	2004																																																						
4000K	1.075	0-90	2235																																																						
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Performance Retrofit Downlights



8-Inch 24W CRI90

EM Commercial DL 8" _24W_ CRI90_3000K		(C8R24930UNVW)	
Product Key Parameter			
Input Voltage(VAC)		120	
System Level Power(W)		22.6	
Delivered Lumens(Lm)		2026.2	
System efficacy(Lm/W)		89.66	
CCT(K)		3029	
Colour Rendering Index(CRI)		92.2	
Beam Angle(°)		91.4	
Spacing Criteria		5	
Note: Use LM-79 testing data			
Light distribution photo		Intensity Summary	
<p>UNIT:cd C0/180,91.5 C90/270,91.4 AVERAGE BEAM ANGLE(50%):91.4 DEG</p>		Angle(°)	Mean CP
		0	939
		5	935
		15	891
		25	803
		35	686
		45	508
		55	291
		65	125
		75	59.9
85	28.1		
90	14		
CCT Data Multiplier			
2700K		/	
3000K		1.000	
3500K		0.994	
4000K		1.026	
5000K		/	
Cone of Light Tabulation			
Mounted Height (Feet)	Footcandles Beam Center	Diameter (Feet)	
2	234.6	4.1	
4	58.7	8.2	
6	26.1	12.3	
8	14.7	16.4	
10	9.4	20.5	
12	6.5	24.6	
14	4.8	28.7	
16	3.7	32.7	
Zonal Lumen Summary			
Zone(°)	Lumen	% of Luminaire	
0-30	700	34.5%	
0-60	1730	85.4%	
0-90	1940	95.7%	
0-120	1977	97.6%	
120-180	49	2.4%	
0-180	2026	100.0%	

Performance Retrofit Downlights



8-Inch 33W CRI80

Commercial DL 8" _33W_ CRI80_ 3000K		(C8R33830UNVW)																																																							
Product Key Parameter																																																									
Input Voltage(VAC)	120																																																								
System Level Power(W)	31.9																																																								
Delivered Lumens(Lm)	3529.9																																																								
System efficacy(Lm/W)	110.7																																																								
CCT(K)	3036																																																								
Colour Rendering Index(CRI)	83.1																																																								
Beam Angle(°)	94.2																																																								
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<p>UNIT: cd C0/180, 94.2 C90/270, 94.2 AVERAGE BEAM ANGLE (50%) : 94.2 DEG</p>		<table border="1"> <thead> <tr> <th>Angle(°)</th> <th>Mean CP</th> </tr> </thead> <tbody> <tr><td>0</td><td>1529</td></tr> <tr><td>5</td><td>1517</td></tr> <tr><td>15</td><td>1433</td></tr> <tr><td>25</td><td>1276</td></tr> <tr><td>35</td><td>1064</td></tr> <tr><td>45</td><td>821</td></tr> <tr><td>55</td><td>545</td></tr> <tr><td>65</td><td>292</td></tr> <tr><td>75</td><td>103</td></tr> <tr><td>85</td><td>40</td></tr> <tr><td>90</td><td>20.2</td></tr> </tbody> </table>	Angle(°)	Mean CP	0	1529	5	1517	15	1433	25	1276	35	1064	45	821	55	545	65	292	75	103	85	40	90	20.2	<table border="1"> <thead> <tr> <th colspan="3">Cone of Light Tabulation</th> </tr> <tr> <th>Mounted Height (Feet)</th> <th>Footcandles Beam Center</th> <th>Diameter (Feet)</th> </tr> </thead> <tbody> <tr><td>2</td><td>383.1</td><td>4.3</td></tr> <tr><td>4</td><td>95.8</td><td>8.6</td></tr> <tr><td>6</td><td>42.6</td><td>12.9</td></tr> <tr><td>8</td><td>23.9</td><td>17.2</td></tr> <tr><td>10</td><td>15.3</td><td>21.5</td></tr> <tr><td>12</td><td>10.6</td><td>25.8</td></tr> <tr><td>14</td><td>7.8</td><td>30.1</td></tr> <tr><td>16</td><td>6.0</td><td>34.3</td></tr> </tbody> </table>	Cone of Light Tabulation			Mounted Height (Feet)	Footcandles Beam Center	Diameter (Feet)	2	383.1	4.3	4	95.8	8.6	6	42.6	12.9	8	23.9	17.2	10	15.3	21.5	12	10.6	25.8	14	7.8	30.1	16	6.0	34.3
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4000K	1.041	0-90	3377																																																						
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Performance Retrofit Downlights



8-Inch 33W CRI90

EM Commercial DL 8" 33W_CRI90_3000K		(C8R33930UNVW)																								
Product Key Parameter																										
Input Voltage(VAC)	120																									
System Level Power(W)	31.6																									
Delivered Lumens(Lm)	3035.2																									
System efficacy(Lm/W)	96.1																									
CCT(K)	3005																									
Color Rendering Index(CRI)	92.3																									
Beam Angle(°)	93.9																									
Spacing Criteria	5																									
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<p>UNIT:cd C0/180,93.9 C90/270,93.9 AVERAGE BEAM ANGLE (50%):93.9 DEG</p>		<table border="1"> <thead> <tr> <th>Angle(°)</th> <th>Mean CP</th> </tr> </thead> <tbody> <tr><td>0</td><td>1324</td></tr> <tr><td>5</td><td>1316</td></tr> <tr><td>15</td><td>1248</td></tr> <tr><td>25</td><td>1111</td></tr> <tr><td>35</td><td>925</td></tr> <tr><td>45</td><td>713</td></tr> <tr><td>55</td><td>472</td></tr> <tr><td>65</td><td>250</td></tr> <tr><td>75</td><td>87</td></tr> <tr><td>85</td><td>33.3</td></tr> <tr><td>90</td><td>17.4</td></tr> </tbody> </table>	Angle(°)	Mean CP	0	1324	5	1316	15	1248	25	1111	35	925	45	713	55	472	65	250	75	87	85	33.3	90	17.4
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0-90	2904	95.7%																								
0-120	2961	97.5%																								
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