

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P792296

Luminaire Tested: LER6D40BD010-EC6DR3040509027-6LBDP1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P792296  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LER6D40BD010-EC6DR3040509027-6LBDP1H  
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4243.4 lumens  
Efficiency: N/A  
Efficacy: 120.6 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

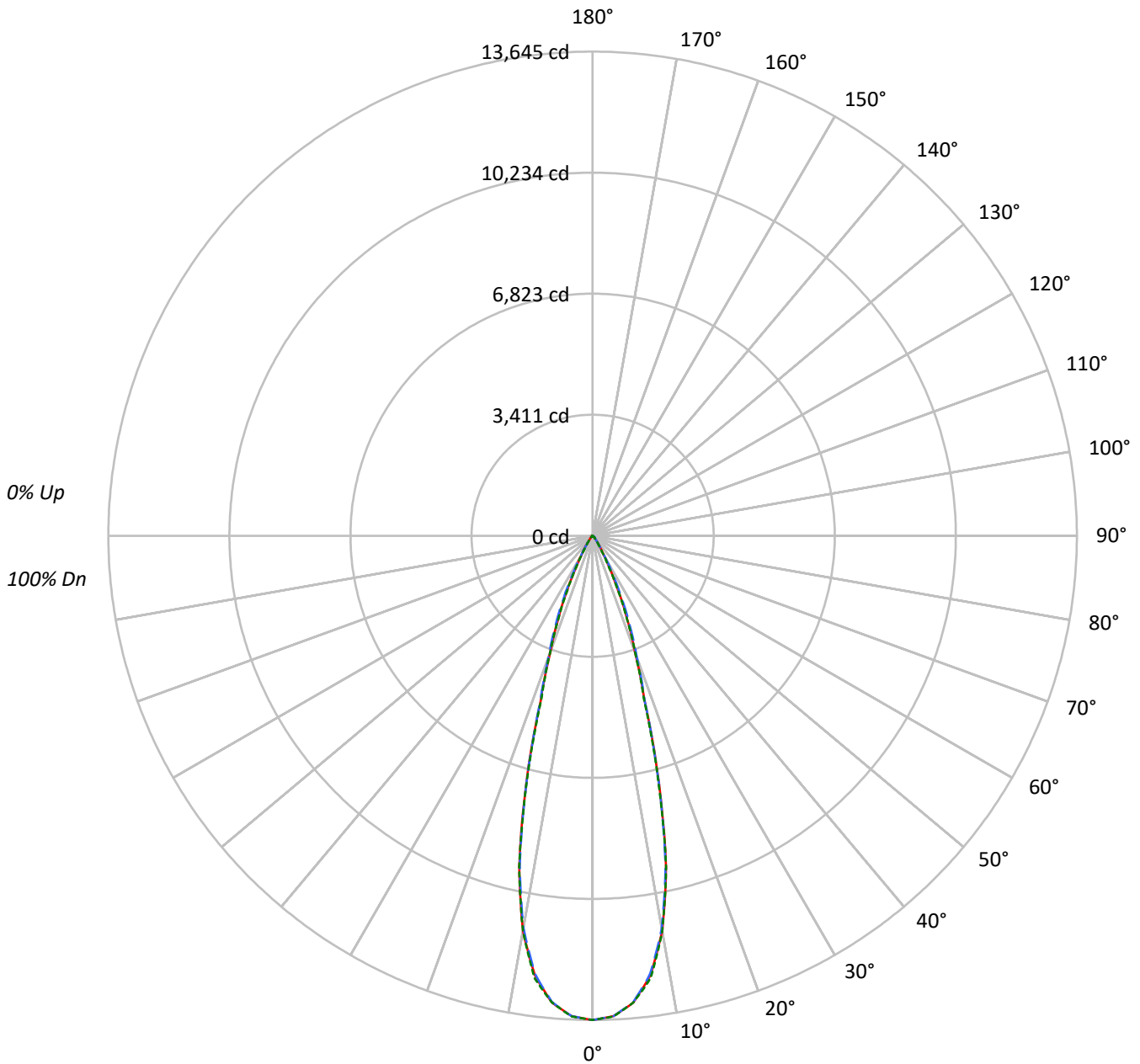


Downlight

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1044404	1044404	1044404
5°	1014424	1013241	1014470
10°	878641	872446	878439
15°	573272	570189	567328
20°	285063	295758	284680
25°	143593	161928	140654
30°	57494	62647	50088
35°	26668	25538	21408
40°	11511	12790	10841
45°	8119	10078	8194
50°	2786	7335	2953
55°	1615	3043	1695
60°	1133	1332	1133
65°	724	724	724
70°	448	291	448
75°	0	207	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 10078 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1199.8	28.3
10°-20°	1932.3	45.5
20°-30°	835.0	19.7
30°-40°	190.3	4.5
40°-50°	65.3	1.5
50°-60°	16.0	0.4
60°-70°	4.1	0.1
70°-80°	0.4	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3967.2	93.5
0°-40°	4157.5	98.0
0°-60°	4238.8	99.9
0°-90°	4243.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4243.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13645	13645	13645	13645	13645	
5°	13202	13190	13187	13214	13203	1201
15°	7234	7147	7195	7172	7159	1937
25°	1700	1764	1917	1720	1665	814
35°	285	291	273	271	229	194
45°	75	93	93	93	76	53
55°	12	13	23	13	13	12
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	13644.6	13644.6	13644.6	13644.6	13644.6
2.5°	13554.2	13544.8	13550.2	13556.9	13559.5
5°	13202.5	13189.8	13187.1	13214.5	13203.1
7.5°	12493.0	12475.0	12447.5	12509.8	12568.1
10°	11304.6	11284.5	11224.9	11254.4	11302.0
12.5°	9550.2	9485.2	9483.8	9577.6	9564.9
15°	7234.3	7147.2	7195.4	7172.0	7159.3
17.5°	4864.8	4831.4	4895.7	4876.2	4792.5
20°	3499.6	3508.3	3630.9	3569.3	3494.9
22.5°	2553.7	2585.2	2730.5	2571.8	2513.5
25°	1700.2	1764.5	1917.3	1719.6	1665.4
27.5°	1045.7	1075.2	1229.9	1032.3	1002.8
30°	650.5	635.7	708.8	608.3	566.7
32.5°	426.7	408.0	431.4	387.2	353.7
35°	285.4	291.4	273.3	271.3	229.1
37.5°	178.2	205.0	180.9	192.9	147.4
40°	115.2	148.7	128.0	141.3	108.5
42.5°	94.5	114.6	105.2	111.9	96.5
45°	75.0	93.1	93.1	93.1	75.7
47.5°	41.5	62.3	79.7	63.6	44.2
50°	23.4	31.5	61.6	32.8	24.8
52.5°	16.1	18.1	42.2	18.8	16.7
55°	12.1	12.7	22.8	13.4	12.7
57.5°	9.4	10.0	12.1	10.0	9.4
60°	7.4	7.4	8.7	8.0	7.4
62.5°	5.4	5.4	6.0	5.4	5.4
65°	4.0	4.0	4.0	4.0	4.0
67.5°	2.0	2.7	2.7	2.7	2.7
70°	2.0	1.3	1.3	1.3	2.0
72.5°	1.3	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - 90°-270°

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(END OF REPORT)