

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



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: P792327

Luminaire Tested: LER6D40BD010-EC6DR3040509050-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P792327  
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-EC6DR3040509050-6LBDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3749.5 lumens  
Efficiency: N/A  
Efficacy: 106.5 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

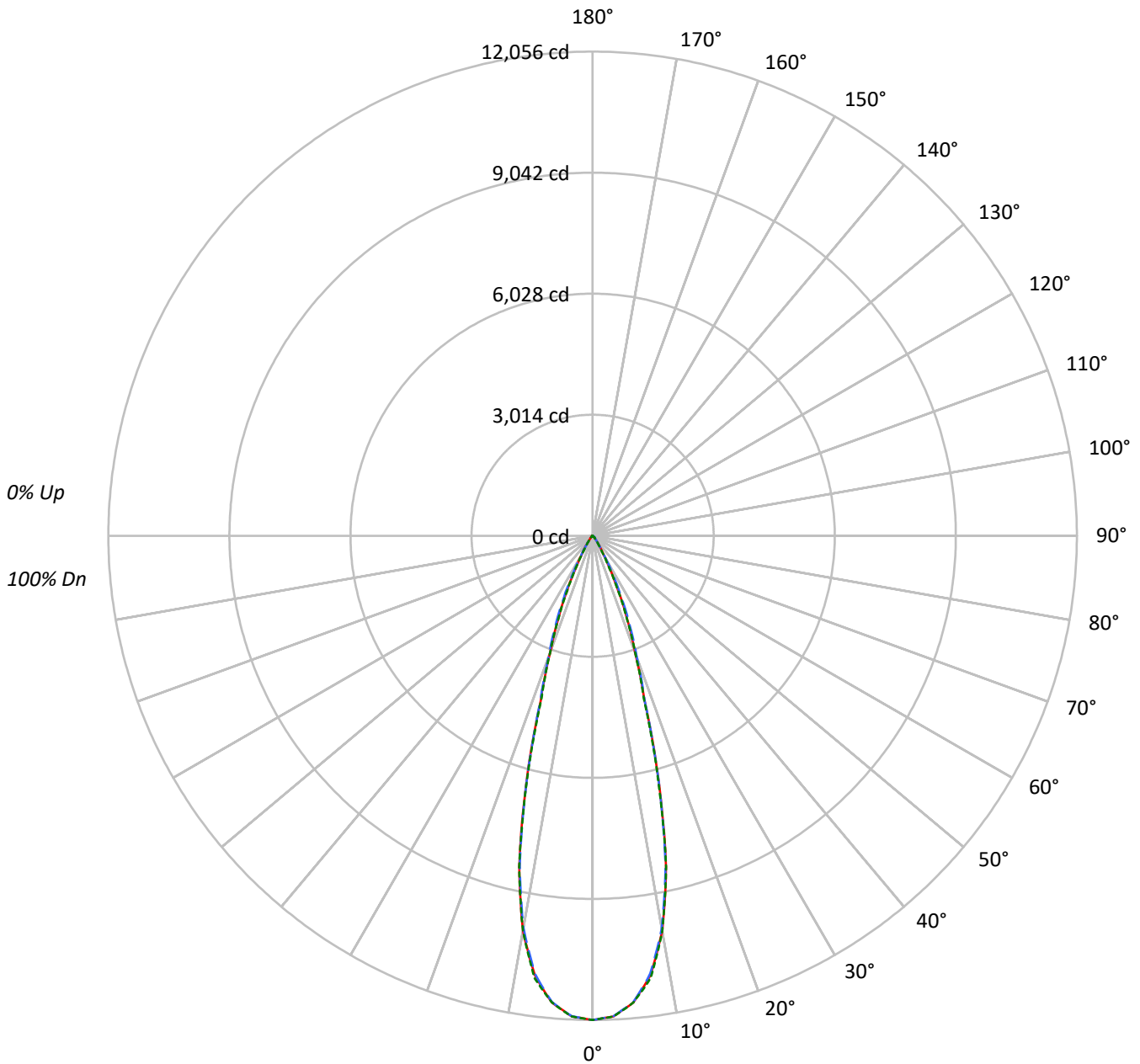


Downlight

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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°	922845	922845	922845
5°	896359	895306	896405
10°	776379	770907	776193
15°	506549	503831	501295
20°	251886	261335	251544
25°	126879	143077	124286
30°	50804	55355	44263
35°	23566	22566	18913
40°	10172	11301	9582
45°	7177	8909	7242
50°	2465	6490	2608
55°	1428	2682	1495
60°	995	1179	995
65°	652	652	652
70°	403	269	403
75°	0	177	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 8909 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1060.2	28.3
10°-20°	1707.4	45.5
20°-30°	737.8	19.7
30°-40°	168.2	4.5
40°-50°	57.7	1.5
50°-60°	14.1	0.4
60°-70°	3.7	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°	3505.5	93.5
0°-40°	3673.6	98.0
0°-60°	3745.5	99.9
0°-90°	3749.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3749.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12056	12056	12056	12056	12056	
5°	11666	11655	11652	11676	11666	1061
15°	6392	6315	6358	6337	6326	1712
25°	1502	1559	1694	1520	1472	719
35°	252	258	242	240	202	171
45°	66	82	82	82	67	47
55°	11	11	20	12	11	10
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°	12056.5	12056.5	12056.5	12056.5	12056.5
2.5°	11976.6	11968.3	11973.1	11979.0	11981.4
5°	11665.9	11654.6	11652.2	11676.5	11666.5
7.5°	11039.0	11023.0	10998.8	11053.8	11105.3
10°	9988.9	9971.2	9918.5	9944.5	9986.5
12.5°	8438.6	8381.2	8380.0	8462.9	8451.7
15°	6392.3	6315.4	6358.0	6337.3	6326.0
17.5°	4298.6	4269.0	4325.9	4308.7	4234.7
20°	3092.3	3100.0	3208.3	3153.8	3088.1
22.5°	2256.5	2284.3	2412.7	2272.4	2220.9
25°	1502.3	1559.2	1694.1	1519.5	1471.6
27.5°	924.0	950.1	1086.8	912.2	886.1
30°	574.8	561.7	626.3	537.5	500.8
32.5°	377.1	360.5	381.2	342.1	312.5
35°	252.2	257.5	241.5	239.7	202.4
37.5°	157.5	181.1	159.8	170.5	130.2
40°	101.8	131.4	113.1	124.9	95.9
42.5°	83.5	101.2	92.9	98.9	85.2
45°	66.3	82.3	82.3	82.3	66.9
47.5°	36.7	55.0	70.4	56.2	39.1
50°	20.7	27.8	54.5	29.0	21.9
52.5°	14.2	16.0	37.3	16.6	14.8
55°	10.7	11.2	20.1	11.8	11.2
57.5°	8.3	8.9	10.7	8.9	8.3
60°	6.5	6.5	7.7	7.1	6.5
62.5°	4.7	4.7	5.3	4.7	4.7
65°	3.6	3.6	3.6	3.6	3.6
67.5°	1.8	2.4	2.4	2.4	2.4
70°	1.8	1.2	1.2	1.2	1.8
72.5°	1.2	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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

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Scaled Data Report







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

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(END OF REPORT)