

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: P792313

Luminaire Tested: LER6D40BD010-EC6DR3040509035-6LBDP1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P792313  
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-EC6DR3040509035-6LBDP1LI  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4638.6 lumens  
Efficiency: N/A  
Efficacy: 131.8 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

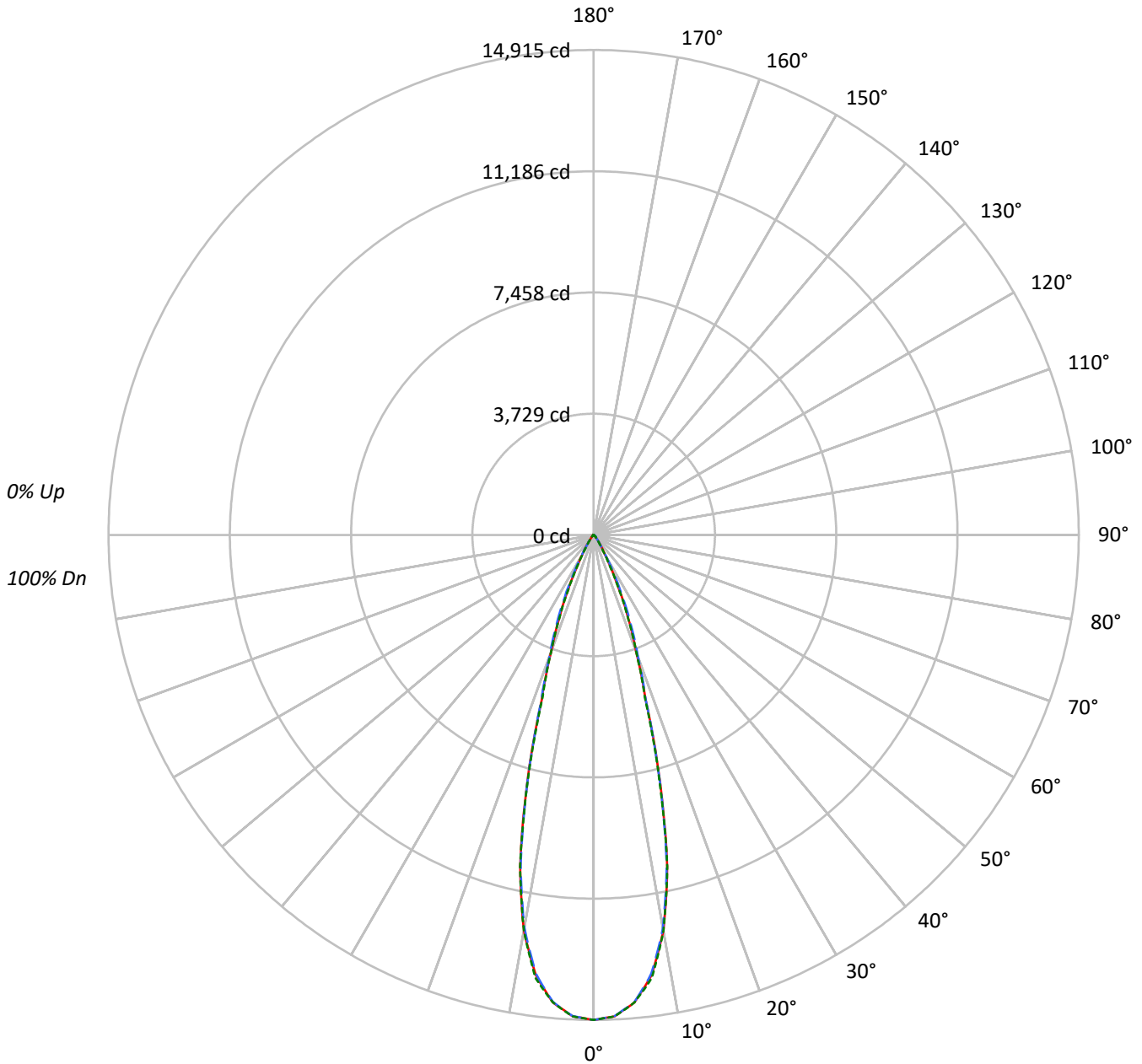


Downlight

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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	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°	1141668	1141668	1141668
5°	1108894	1107595	1108948
10°	960469	953691	960244
15°	626658	623290	620160
20°	311609	323298	311194
25°	156970	177003	153753
30°	62850	68480	54754
35°	29154	27921	23398
40°	12590	13979	11851
45°	8876	11020	8952
50°	3048	8026	3227
55°	1762	3323	1855
60°	1240	1454	1240
65°	797	797	797
70°	492	336	492
75°	0	207	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 11020 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1311.6	28.3
10°-20°	2112.3	45.5
20°-30°	912.8	19.7
30°-40°	208.0	4.5
40°-50°	71.4	1.5
50°-60°	17.5	0.4
60°-70°	4.5	0.1
70°-80°	0.5	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°	4336.7	93.5
0°-40°	4544.7	98.0
0°-60°	4633.6	99.9
0°-90°	4638.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4638.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14915	14915	14915	14915	14915	
5°	14432	14418	14415	14445	14433	1313
15°	7908	7813	7866	7840	7826	2117
25°	1859	1929	2096	1880	1820	890
35°	312	318	299	297	250	212
45°	82	102	102	102	83	58
55°	13	14	25	15	14	13
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°	14915.3	14915.3	14915.3	14915.3	14915.3
2.5°	14816.4	14806.2	14812.0	14819.3	14822.3
5°	14432.0	14418.0	14415.1	14445.1	14432.7
7.5°	13656.5	13636.7	13606.7	13674.8	13738.5
10°	12357.4	12335.4	12270.2	12302.5	12354.5
12.5°	10439.5	10368.5	10367.0	10469.5	10455.6
15°	7908.0	7812.8	7865.5	7839.9	7826.0
17.5°	5317.9	5281.3	5351.6	5330.3	5238.8
20°	3825.5	3835.0	3969.0	3901.6	3820.4
22.5°	2791.5	2825.9	2984.8	2811.3	2747.5
25°	1858.6	1928.9	2095.8	1879.8	1820.5
27.5°	1143.1	1175.3	1344.5	1128.5	1096.2
30°	711.1	694.9	774.8	664.9	619.5
32.5°	466.5	446.0	471.6	423.3	386.6
35°	312.0	318.5	298.8	296.6	250.4
37.5°	194.8	224.1	197.7	210.9	161.1
40°	126.0	162.6	139.9	154.5	118.6
42.5°	103.3	125.2	115.0	122.3	105.4
45°	82.0	101.8	101.8	101.8	82.7
47.5°	45.4	68.1	87.1	69.6	48.3
50°	25.6	34.4	67.4	35.9	27.1
52.5°	17.6	19.8	46.1	20.5	18.3
55°	13.2	13.9	24.9	14.6	13.9
57.5°	10.3	11.0	13.2	11.0	10.3
60°	8.1	8.1	9.5	8.8	8.1
62.5°	5.9	5.9	6.6	5.9	5.9
65°	4.4	4.4	4.4	4.4	4.4
67.5°	2.2	2.9	2.9	2.9	2.9
70°	2.2	1.5	1.5	1.5	2.2
72.5°	1.5	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)