

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: P792315

Luminaire Tested: LER6D40BD010-EC6DR3040509035-6LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P792315  
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-EC6DR3040509035-6LBS1B  
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

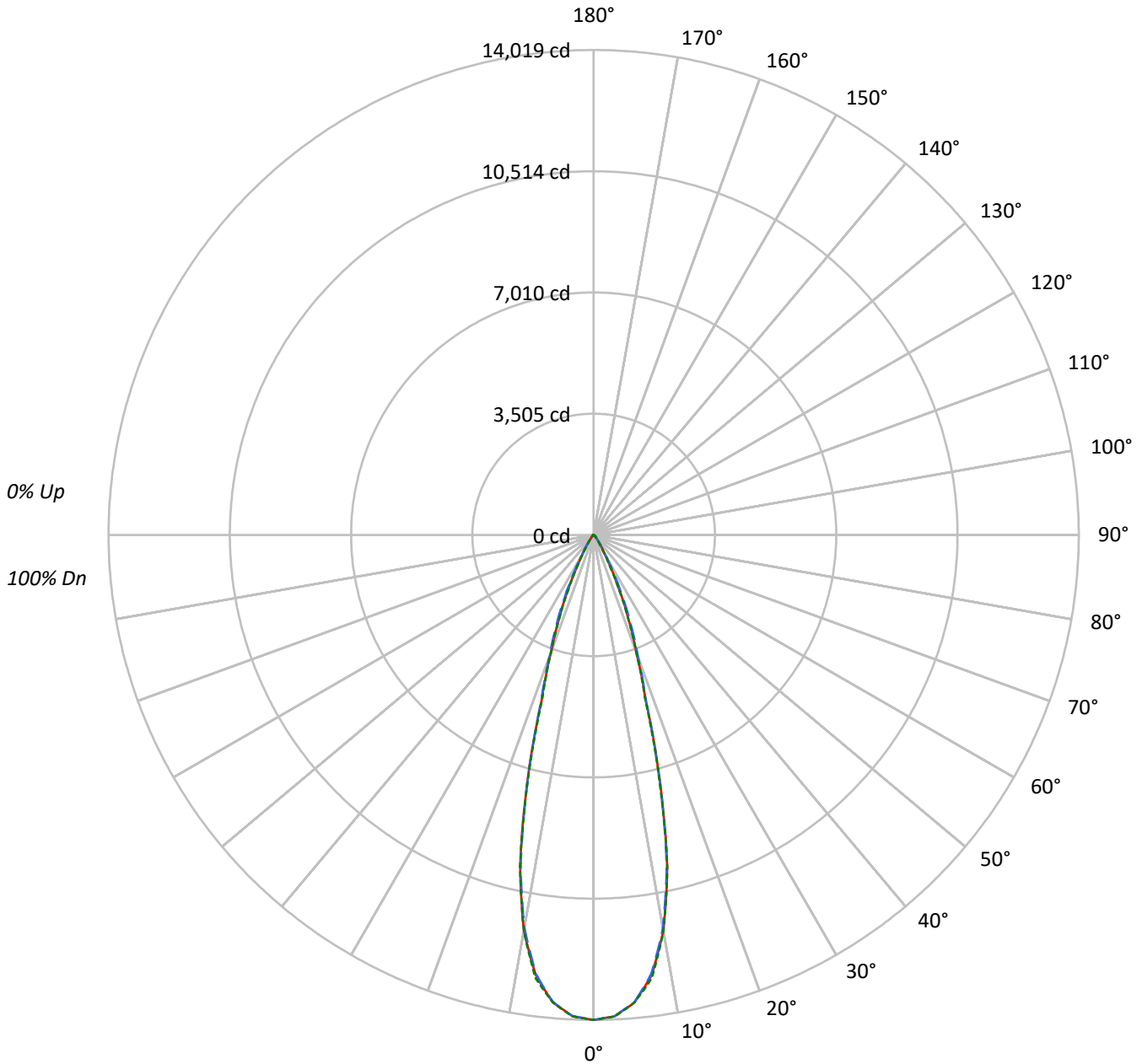
Lumens per Lamp: N/A  
Luminaire Lumens: 4359.9 lumens  
Efficiency: N/A  
Efficacy: 123.9 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 35.2  
Input Voltage (V): NR  
Input Current (A<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°	1073085	1073085	1073085
5°	1042277	1041063	1042331
10°	902774	896409	902557
15°	589009	585848	582908
20°	292891	303879	292500
25°	147537	166370	144513
30°	59067	64362	51466
35°	27397	26239	21996
40°	11831	13140	11141
45°	8346	10359	8422
50°	2870	7538	3037
55°	1655	3123	1748
60°	1163	1362	1163
65°	743	743	743
70°	470	313	470
75°	0	207	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 10359 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1232.8	28.3
10°-20°	1985.4	45.5
20°-30°	857.9	19.7
30°-40°	195.5	4.5
40°-50°	67.1	1.5
50°-60°	16.4	0.4
60°-70°	4.3	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°	4076.1	93.5
0°-40°	4271.7	98.0
0°-60°	4355.2	99.9
0°-90°	4359.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4359.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14019	14019	14019	14019	14019	
5°	13565	13552	13549	13577	13566	1234
15°	7433	7344	7393	7369	7356	1990
25°	1747	1813	1970	1767	1711	836
35°	293	299	281	279	235	199
45°	77	96	96	96	78	55
55°	12	13	23	14	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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	14019.3	14019.3	14019.3	14019.3	14019.3
2.5°	13926.4	13916.7	13922.2	13929.1	13931.9
5°	13565.0	13551.9	13549.2	13577.4	13565.7
7.5°	12836.1	12817.5	12789.3	12853.3	12913.2
10°	11615.1	11594.4	11533.2	11563.4	11612.3
12.5°	9812.4	9745.6	9744.3	9840.6	9827.5
15°	7432.9	7343.5	7393.0	7368.9	7355.9
17.5°	4998.4	4964.0	5030.1	5010.1	4924.1
20°	3595.7	3604.6	3730.6	3667.3	3590.9
22.5°	2623.8	2656.1	2805.5	2642.4	2582.5
25°	1746.9	1813.0	1969.9	1766.9	1711.1
27.5°	1074.4	1104.7	1263.7	1060.7	1030.4
30°	668.3	653.2	728.2	625.0	582.3
32.5°	438.4	419.2	443.3	397.8	363.4
35°	293.2	299.4	280.8	278.8	235.4
37.5°	183.1	210.6	185.8	198.2	151.4
40°	118.4	152.8	131.5	145.2	111.5
42.5°	97.1	117.7	108.1	114.9	99.1
45°	77.1	95.7	95.7	95.7	77.8
47.5°	42.7	64.0	81.9	65.4	45.4
50°	24.1	32.4	63.3	33.7	25.5
52.5°	16.5	18.6	43.4	19.3	17.2
55°	12.4	13.1	23.4	13.8	13.1
57.5°	9.6	10.3	12.4	10.3	9.6
60°	7.6	7.6	8.9	8.3	7.6
62.5°	5.5	5.5	6.2	5.5	5.5
65°	4.1	4.1	4.1	4.1	4.1
67.5°	2.1	2.8	2.8	2.8	2.8
70°	2.1	1.4	1.4	1.4	2.1
72.5°	1.4	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

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Scaled Data Report







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

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(END OF REPORT)