

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: P792331

Luminaire Tested: LER6D40BD010-EC6DR3040509050-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P792331
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-EC6DR3040509050-6LBS1B
Description: 6 INCH ROUND SHALLOW 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: 4596.4 lumens
Efficiency: N/A
Efficacy: 130.6 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

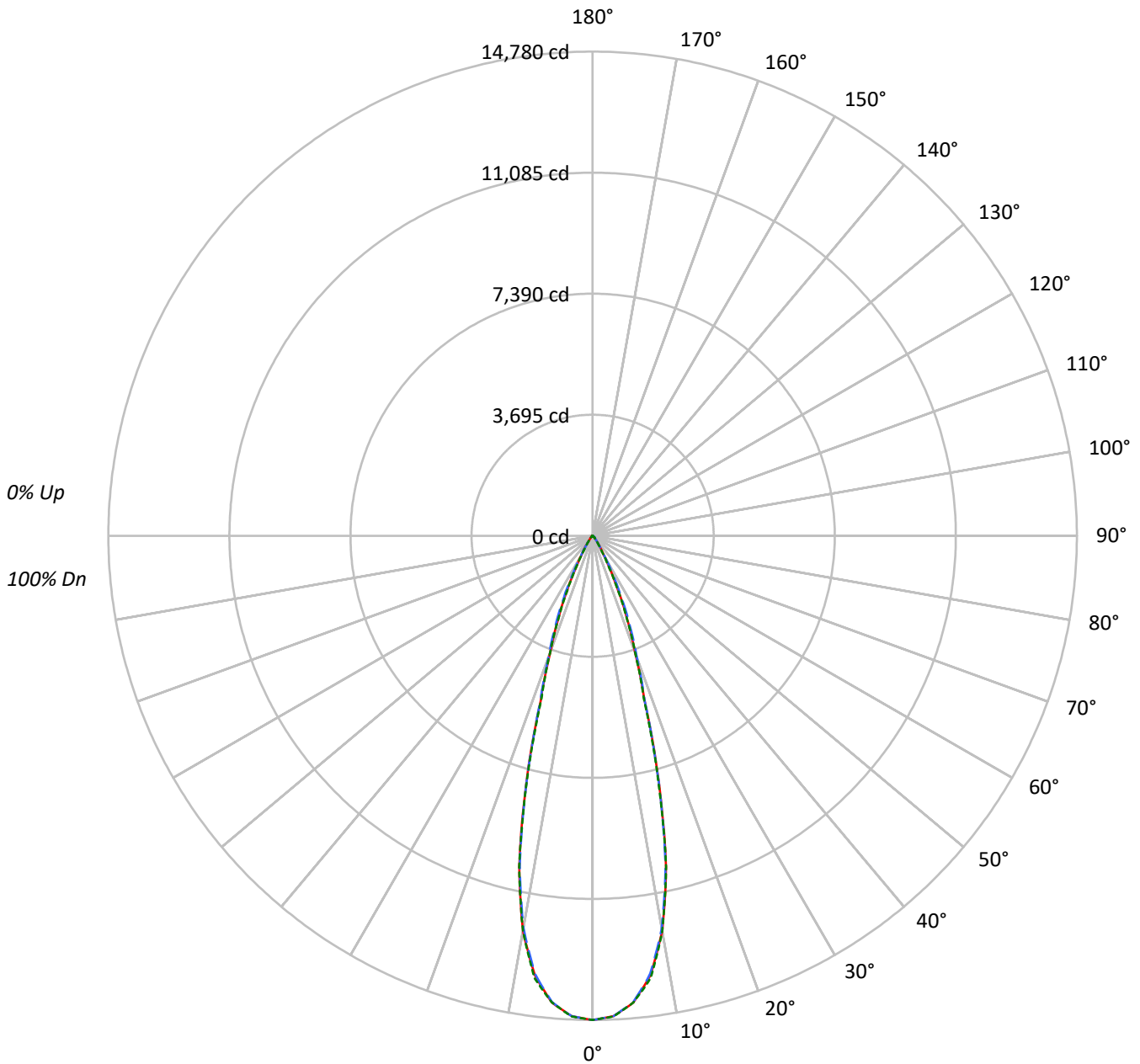
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1131273	1131273	1131273
5°	1098798	1097515	1098859
10°	951725	945017	951500
15°	620952	617616	614518
20°	308774	320357	308359
25°	155535	175390	152351
30°	62276	67853	54259
35°	28883	27668	23192
40°	12470	13849	11751
45°	8801	10922	8876
50°	3025	7955	3191
55°	1748	3296	1842
60°	1225	1439	1225
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: 10922 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1299.6	28.3
10°-20°	2093.1	45.5
20°-30°	904.5	19.7
30°-40°	206.1	4.5
40°-50°	70.8	1.5
50°-60°	17.3	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°	4297.2	93.5
0°-40°	4503.3	98.0
0°-60°	4591.4	99.9
0°-90°	4596.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4596.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14780	14780	14780	14780	14780	
5°	14301	14287	14284	14314	14301	1301
15°	7836	7742	7794	7768	7755	2098
25°	1842	1911	2077	1863	1804	882
35°	309	316	296	294	248	210
45°	81	101	101	101	82	58
55°	13	14	25	14	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°	14779.5	14779.5	14779.5	14779.5	14779.5
2.5°	14681.6	14671.4	14677.2	14684.5	14687.4
5°	14300.6	14286.8	14283.9	14313.7	14301.4
7.5°	13532.2	13512.6	13482.8	13550.3	13613.5
10°	12244.9	12223.2	12158.6	12190.5	12242.0
12.5°	10344.5	10274.1	10272.7	10374.3	10360.5
15°	7836.0	7741.7	7793.9	7768.5	7754.8
17.5°	5269.5	5233.2	5302.9	5281.8	5191.1
20°	3790.7	3800.1	3932.9	3866.1	3785.6
22.5°	2766.1	2800.2	2957.6	2785.7	2722.5
25°	1841.6	1911.3	2076.7	1862.7	1803.9
27.5°	1132.7	1164.6	1332.2	1118.2	1086.3
30°	704.6	688.6	767.7	658.9	613.9
32.5°	462.2	441.9	467.3	419.4	383.1
35°	309.1	315.6	296.1	293.9	248.2
37.5°	193.0	222.0	195.9	209.0	159.6
40°	124.8	161.1	138.6	153.1	117.6
42.5°	102.3	124.1	113.9	121.2	104.5
45°	81.3	100.9	100.9	100.9	82.0
47.5°	45.0	67.5	86.3	68.9	47.9
50°	25.4	34.1	66.8	35.6	26.8
52.5°	17.4	19.6	45.7	20.3	18.1
55°	13.1	13.8	24.7	14.5	13.8
57.5°	10.2	10.9	13.1	10.9	10.2
60°	8.0	8.0	9.4	8.7	8.0
62.5°	5.8	5.8	6.5	5.8	5.8
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

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Scaled Data Report





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

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