

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: P792287

Luminaire Tested: LER6D40BD010-EC6DR3040509024-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P792287
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-EC6DR3040509024-6LBDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3015.9 lumens
Efficiency: N/A
Efficacy: 85.7 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

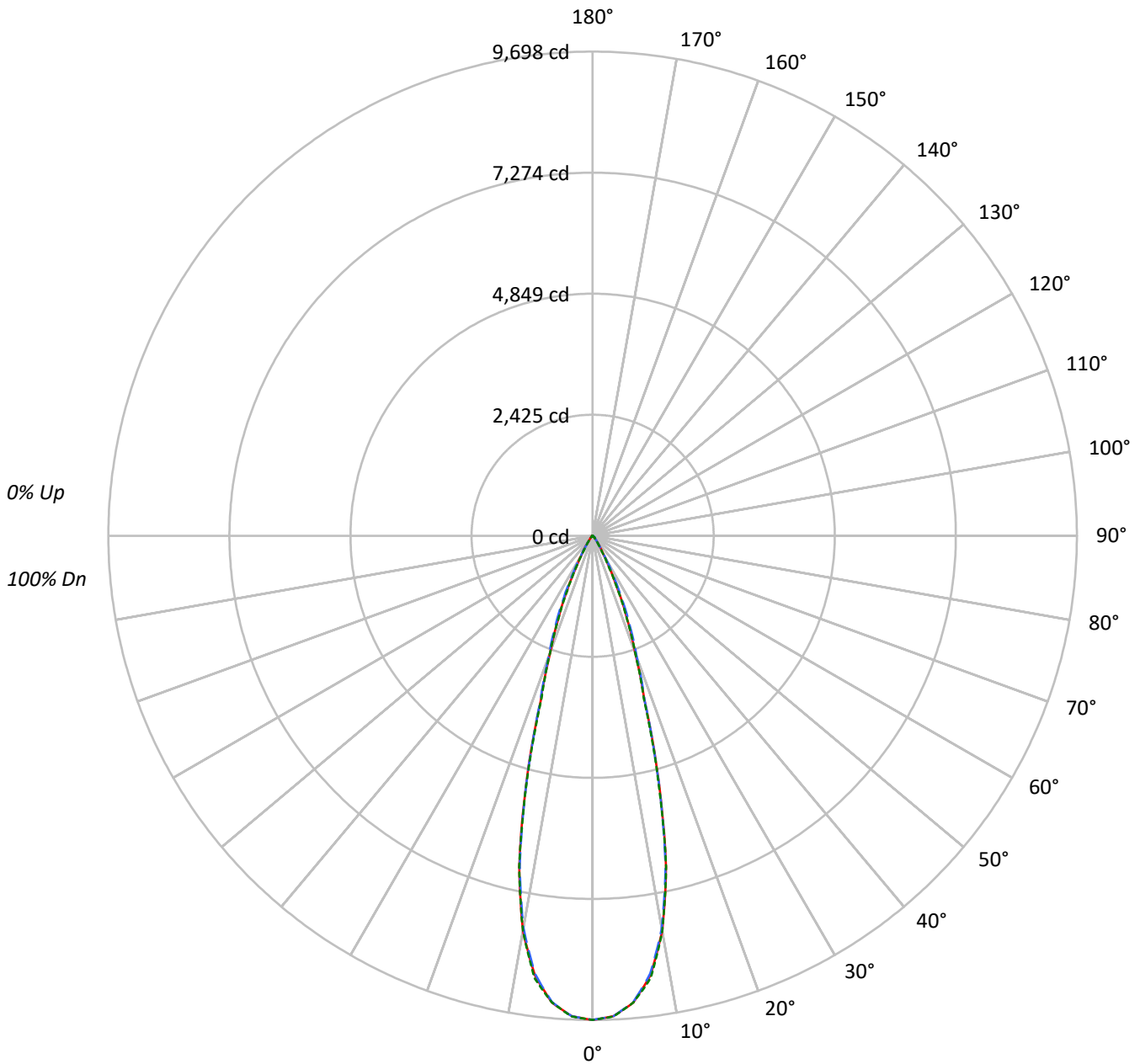


Downlight

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	742280	742280	742280
5°	720973	720136	721012
10°	624475	620068	624327
15°	407439	405252	403215
20°	202597	210205	202328
25°	102057	115080	99962
30°	40860	44519	35601
35°	18950	18156	15212
40°	8183	9083	7704
45°	5770	7166	5824
50°	1989	5216	2096
55°	1148	2162	1201
60°	796	949	796
65°	525	525	525
70°	313	224	313
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7166 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	852.8	28.3
10°-20°	1373.4	45.5
20°-30°	593.5	19.7
30°-40°	135.3	4.5
40°-50°	46.4	1.5
50°-60°	11.3	0.4
60°-70°	3.0	0.1
70°-80°	0.3	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°	2819.6	93.5
0°-40°	2954.8	98.0
0°-60°	3012.6	99.9
0°-90°	3015.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3015.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9698	9698	9698	9698	9698	
5°	9383	9374	9372	9392	9384	853
15°	5142	5080	5114	5097	5088	1377
25°	1208	1254	1363	1222	1184	578
35°	203	207	194	193	163	138
45°	53	66	66	66	54	38
55°	9	9	16	10	9	8
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	9697.5	9697.5	9697.5	9697.5	9697.5
2.5°	9633.3	9626.6	9630.4	9635.2	9637.1
5°	9383.3	9374.3	9372.4	9391.9	9383.8
7.5°	8879.1	8866.2	8846.7	8891.0	8932.4
10°	8034.5	8020.2	7977.8	7998.8	8032.6
12.5°	6787.5	6741.3	6740.4	6807.0	6798.0
15°	5141.6	5079.7	5114.0	5097.3	5088.3
17.5°	3457.6	3433.8	3479.5	3465.7	3406.1
20°	2487.2	2493.4	2580.6	2536.7	2483.9
22.5°	1815.0	1837.3	1940.7	1827.8	1786.4
25°	1208.4	1254.1	1362.6	1222.2	1183.6
27.5°	743.2	764.2	874.2	733.7	712.7
30°	462.3	451.8	503.7	432.3	402.8
32.5°	303.3	290.0	306.6	275.2	251.4
35°	202.8	207.1	194.3	192.8	162.8
37.5°	126.6	145.7	128.6	137.1	104.7
40°	81.9	105.7	90.9	100.5	77.1
42.5°	67.1	81.4	74.8	79.5	68.6
45°	53.3	66.2	66.2	66.2	53.8
47.5°	29.5	44.3	56.7	45.2	31.4
50°	16.7	22.4	43.8	23.3	17.6
52.5°	11.4	12.9	30.0	13.3	11.9
55°	8.6	9.0	16.2	9.5	9.0
57.5°	6.7	7.1	8.6	7.1	6.7
60°	5.2	5.2	6.2	5.7	5.2
62.5°	3.8	3.8	4.3	3.8	3.8
65°	2.9	2.9	2.9	2.9	2.9
67.5°	1.4	1.9	1.9	1.9	1.9
70°	1.4	1.0	1.0	1.0	1.4
72.5°	1.0	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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