

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: P792323

Luminaire Tested: LER6D40BD010-EC6DR3040509040-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P792323
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-EC6DR3040509040-6LBS1B
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4563.8 lumens
Efficiency: N/A
Efficacy: 129.7 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

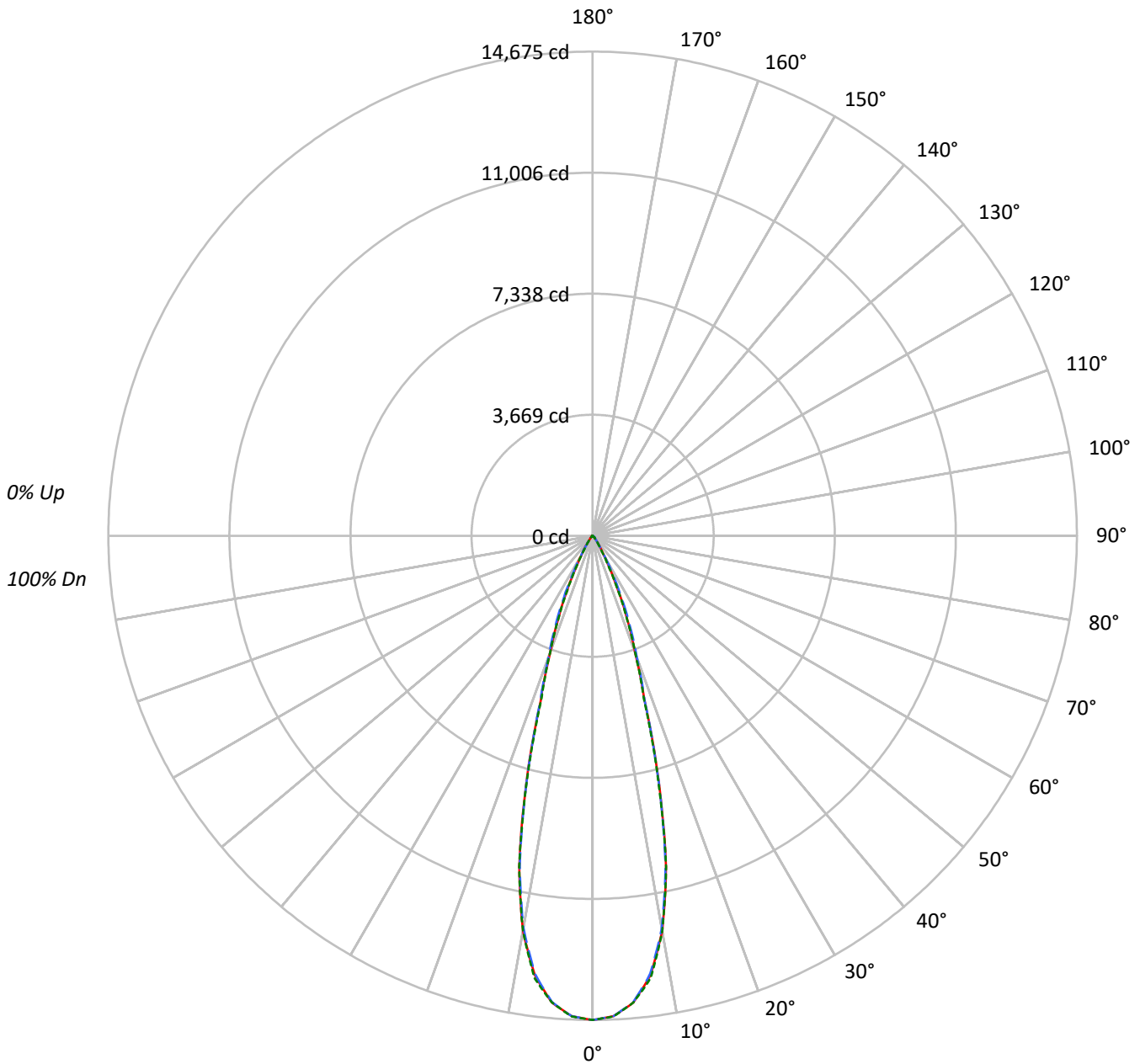


Downlight

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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	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°	1123251	1123251	1123251
5°	1091007	1089731	1091060
10°	944979	938310	944753
15°	616554	613242	610160
20°	306583	318085	306168
25°	154437	174149	151270
30°	61834	67376	53870
35°	28677	27472	23024
40°	12380	13749	11661
45°	8736	10836	8811
50°	3001	7895	3179
55°	1735	3270	1828
60°	1209	1439	1209
65°	779	779	779
70°	492	313	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: 10836 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1290.4	28.3
10°-20°	2078.2	45.5
20°-30°	898.1	19.7
30°-40°	204.7	4.5
40°-50°	70.3	1.5
50°-60°	17.2	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°	4266.7	93.5
0°-40°	4471.4	98.0
0°-60°	4558.8	99.9
0°-90°	4563.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4563.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14675	14675	14675	14675	14675	
5°	14199	14186	14183	14212	14200	1291
15°	7780	7687	7739	7714	7700	2083
25°	1829	1898	2062	1850	1791	875
35°	307	313	294	292	246	208
45°	81	100	100	100	81	57
55°	13	14	24	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°	14674.7	14674.7	14674.7	14674.7	14674.7
2.5°	14577.5	14567.4	14573.1	14580.3	14583.2
5°	14199.2	14185.5	14182.6	14212.2	14199.9
7.5°	13436.2	13416.8	13387.2	13454.2	13516.9
10°	12158.1	12136.5	12072.3	12104.1	12155.2
12.5°	10271.2	10201.3	10199.8	10300.7	10287.0
15°	7780.5	7686.8	7738.7	7713.5	7699.8
17.5°	5232.1	5196.1	5265.3	5244.4	5154.3
20°	3763.8	3773.1	3905.0	3838.7	3758.7
22.5°	2746.5	2780.3	2936.7	2765.9	2703.2
25°	1828.6	1897.7	2062.0	1849.5	1791.1
27.5°	1124.7	1156.4	1322.8	1110.3	1078.6
30°	699.6	683.7	762.3	654.2	609.5
32.5°	458.9	438.8	464.0	416.4	380.4
35°	306.9	313.4	294.0	291.8	246.4
37.5°	191.6	220.5	194.5	207.5	158.5
40°	123.9	159.9	137.6	152.0	116.7
42.5°	101.6	123.2	113.1	120.3	103.7
45°	80.7	100.1	100.1	100.1	81.4
47.5°	44.7	67.0	85.7	68.4	47.6
50°	25.2	33.9	66.3	35.3	26.7
52.5°	17.3	19.5	45.4	20.2	18.0
55°	13.0	13.7	24.5	14.4	13.7
57.5°	10.1	10.8	13.0	10.8	10.1
60°	7.9	7.9	9.4	8.6	7.9
62.5°	5.8	5.8	6.5	5.8	5.8
65°	4.3	4.3	4.3	4.3	4.3
67.5°	2.2	2.9	2.9	2.9	2.9
70°	2.2	1.4	1.4	1.4	2.2
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

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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