

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: P792295

Luminaire Tested: LER6D40BD010-EC6DR3040509027-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P792295
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-EC6DR3040509027-6LBDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3416.3 lumens
Efficiency: N/A
Efficacy: 97.1 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

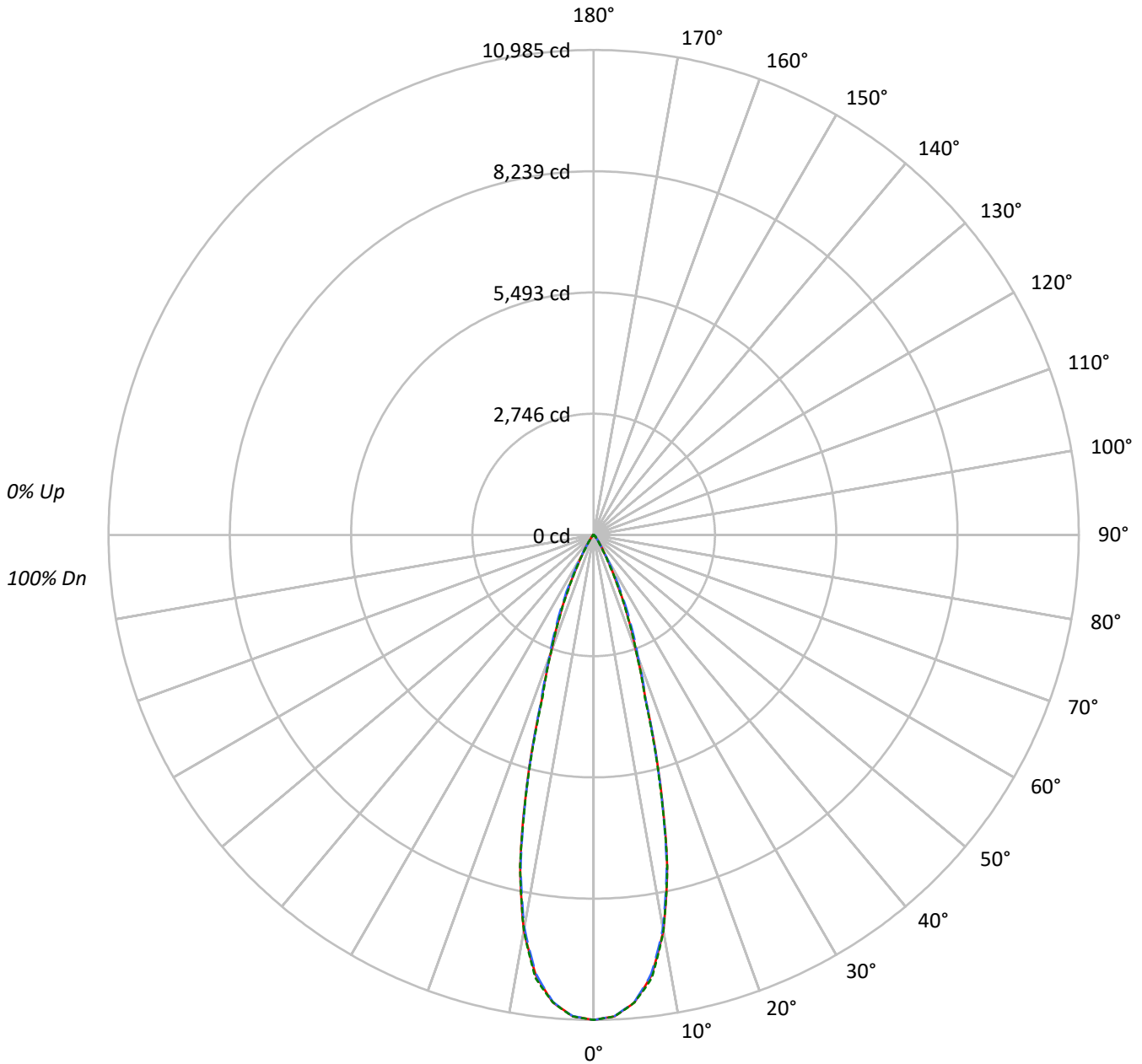


Downlight

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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°	840845	840845	840845
5°	816703	815750	816749
10°	707391	702401	707220
15°	461538	459058	456752
20°	229502	238112	229192
25°	115604	130367	113239
30°	46287	50432	40330
35°	21473	20557	17240
40°	9273	10292	8733
45°	6538	8119	6592
50°	2251	5906	2382
55°	1294	2442	1361
60°	903	1072	903
65°	580	580	580
70°	358	246	358
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8119 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	966.0	28.3
10°-20°	1555.7	45.5
20°-30°	672.3	19.7
30°-40°	153.2	4.5
40°-50°	52.6	1.5
50°-60°	12.8	0.4
60°-70°	3.3	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°	3194.0	93.5
0°-40°	3347.2	98.0
0°-60°	3412.6	99.9
0°-90°	3416.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3416.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10985	10985	10985	10985	10985	
5°	10629	10619	10617	10639	10630	967
15°	5824	5754	5793	5774	5764	1560
25°	1369	1421	1544	1384	1341	655
35°	230	235	220	218	184	156
45°	60	75	75	75	61	43
55°	10	10	18	11	10	9
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°	10985.2	10985.2	10985.2	10985.2	10985.2
2.5°	10912.4	10904.8	10909.1	10914.5	10916.7
5°	10629.2	10619.0	10616.8	10638.9	10629.8
7.5°	10058.1	10043.5	10021.4	10071.5	10118.5
10°	9101.3	9085.1	9037.1	9060.8	9099.1
12.5°	7688.8	7636.4	7635.4	7710.9	7700.6
15°	5824.3	5754.2	5793.0	5774.1	5763.9
17.5°	3916.7	3889.7	3941.5	3925.8	3858.4
20°	2817.5	2824.5	2923.2	2873.6	2813.7
22.5°	2055.9	2081.3	2198.3	2070.5	2023.6
25°	1368.8	1420.6	1543.6	1384.5	1340.8
27.5°	841.9	865.6	990.2	831.1	807.4
30°	523.7	511.8	570.6	489.7	456.3
32.5°	343.6	328.5	347.3	311.7	284.8
35°	229.8	234.6	220.0	218.4	184.5
37.5°	143.5	165.0	145.6	155.3	118.7
40°	92.8	119.7	103.0	113.8	87.4
42.5°	76.0	92.2	84.7	90.1	77.7
45°	60.4	75.0	75.0	75.0	60.9
47.5°	33.4	50.2	64.2	51.2	35.6
50°	18.9	25.3	49.6	26.4	20.0
52.5°	12.9	14.6	34.0	15.1	13.5
55°	9.7	10.2	18.3	10.8	10.2
57.5°	7.6	8.1	9.7	8.1	7.6
60°	5.9	5.9	7.0	6.5	5.9
62.5°	4.3	4.3	4.9	4.3	4.3
65°	3.2	3.2	3.2	3.2	3.2
67.5°	1.6	2.2	2.2	2.2	2.2
70°	1.6	1.1	1.1	1.1	1.6
72.5°	1.1	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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