

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: P792306

Luminaire Tested: LER6D40BD010-EC6DR3040509030-6LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P792306
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-EC6DR3040509030-6LBDP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3899.7 lumens
Efficiency: N/A
Efficacy: 110.8 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

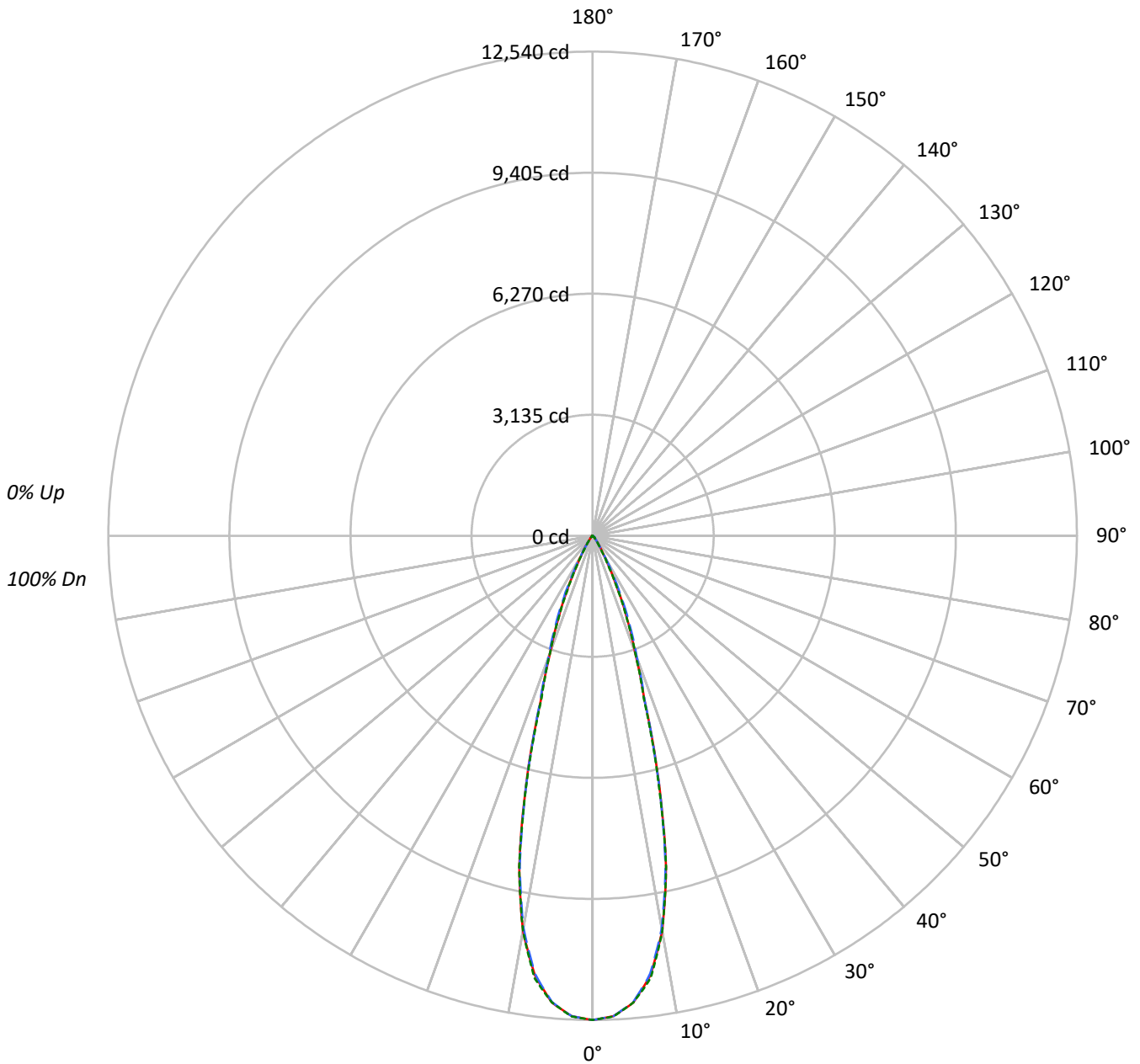


Downlight

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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°	959824	959824	959824
5°	932272	931180	932318
10°	807484	801795	807298
15°	526843	524014	521383
20°	261978	271802	261628
25°	131963	148812	129260
30°	52836	57574	46031
35°	24510	23473	19679
40°	10582	11751	9962
45°	7469	9266	7534
50°	2560	6740	2715
55°	1481	2789	1561
60°	1041	1225	1041
65°	670	670	670
70°	403	269	403
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9266 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1102.7	28.3
10°-20°	1775.9	45.5
20°-30°	767.4	19.7
30°-40°	174.9	4.5
40°-50°	60.1	1.5
50°-60°	14.7	0.4
60°-70°	3.8	0.1
70°-80°	0.4	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°	3645.9	93.5
0°-40°	3820.8	98.0
0°-60°	3895.6	99.9
0°-90°	3899.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3899.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12540	12540	12540	12540	12540	
5°	12133	12122	12119	12144	12134	1104
15°	6648	6568	6613	6591	6580	1780
25°	1562	1622	1762	1580	1530	748
35°	262	268	251	249	211	178
45°	69	86	86	86	70	49
55°	11	12	21	12	12	11
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°	12539.6	12539.6	12539.6	12539.6	12539.6
2.5°	12456.5	12447.9	12452.8	12458.9	12461.4
5°	12133.3	12121.6	12119.1	12144.3	12133.9
7.5°	11481.3	11464.7	11439.4	11496.7	11550.2
10°	10389.1	10370.7	10315.9	10342.9	10386.7
12.5°	8776.7	8717.0	8715.8	8802.0	8790.3
15°	6648.4	6568.4	6612.7	6591.2	6579.5
17.5°	4470.9	4440.1	4499.2	4481.3	4404.4
20°	3216.2	3224.2	3336.8	3280.2	3211.9
22.5°	2346.9	2375.8	2509.4	2363.5	2309.9
25°	1562.5	1621.6	1762.0	1580.4	1530.5
27.5°	961.0	988.1	1130.3	948.7	921.6
30°	597.8	584.3	651.4	559.0	520.8
32.5°	392.2	374.9	396.5	355.8	325.1
35°	262.3	267.8	251.2	249.3	210.6
37.5°	163.8	188.4	166.2	177.3	135.4
40°	105.9	136.7	117.6	129.9	99.7
42.5°	86.8	105.3	96.7	102.8	88.7
45°	69.0	85.6	85.6	85.6	69.6
47.5°	38.2	57.3	73.3	58.5	40.6
50°	21.5	28.9	56.6	30.2	22.8
52.5°	14.8	16.6	38.8	17.2	15.4
55°	11.1	11.7	20.9	12.3	11.7
57.5°	8.6	9.2	11.1	9.2	8.6
60°	6.8	6.8	8.0	7.4	6.8
62.5°	4.9	4.9	5.5	4.9	4.9
65°	3.7	3.7	3.7	3.7	3.7
67.5°	1.8	2.5	2.5	2.5	2.5
70°	1.8	1.2	1.2	1.2	1.8
72.5°	1.2	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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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