

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: P766405

Luminaire Tested: LD6D45BD010-EU6DR3040509030-6LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P766405
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: LD6D45BD010-EU6DR3040509030-6LBS1MW
Description: 6 INCH ROUND SHALLOW 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: 4791.4 lumens
Efficiency: N/A
Efficacy: 123.8 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): 38.7
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

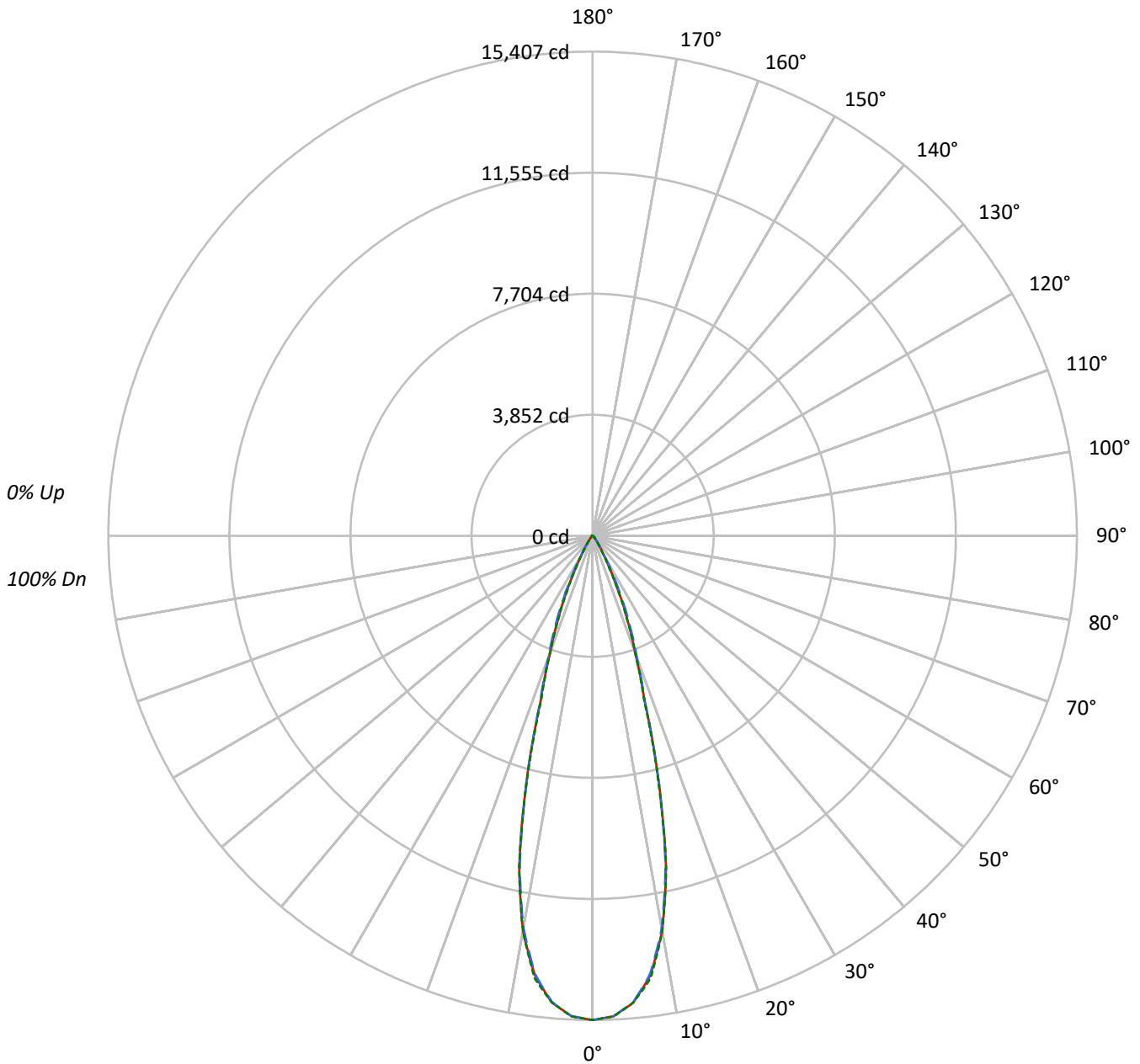


Downlight

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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°	1179289	1179289	1179289
5°	1145429	1144092	1145491
10°	992118	985123	991885
15°	647309	643830	640597
20°	321873	333952	321441
25°	162139	182839	158820
30°	64919	70734	56557
35°	30107	28836	24174
40°	13000	14438	12240
45°	9169	11377	9255
50°	3156	8288	3334
55°	1815	3430	1922
60°	1271	1500	1271
65°	815	815	815
70°	515	336	515
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 11377 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1354.8	28.3
10°-20°	2181.9	45.5
20°-30°	942.9	19.7
30°-40°	214.9	4.5
40°-50°	73.8	1.5
50°-60°	18.0	0.4
60°-70°	4.7	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°	4479.6	93.5
0°-40°	4694.4	98.0
0°-60°	4786.3	99.9
0°-90°	4791.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4791.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15407	15407	15407	15407	15407	
5°	14908	14893	14890	14921	14908	1356
15°	8169	8070	8125	8098	8084	2187
25°	1920	1992	2165	1942	1880	919
35°	322	329	309	306	259	219
45°	85	105	105	105	86	60
55°	14	14	26	15	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°	15406.8	15406.8	15406.8	15406.8	15406.8
2.5°	15304.7	15294.1	15300.1	15307.7	15310.7
5°	14907.5	14893.2	14890.1	14921.2	14908.3
7.5°	14106.5	14086.1	14055.1	14125.4	14191.2
10°	12764.6	12741.9	12674.6	12707.9	12761.6
12.5°	10783.5	10710.2	10708.6	10814.5	10800.2
15°	8168.6	8070.3	8124.7	8098.2	8083.9
17.5°	5493.1	5455.3	5527.9	5506.0	5411.4
20°	3951.5	3961.4	4099.8	4030.2	3946.2
22.5°	2883.5	2919.0	3083.2	2903.9	2838.1
25°	1919.8	1992.4	2164.9	1941.7	1880.5
27.5°	1180.8	1214.1	1388.8	1165.6	1132.4
30°	734.5	717.8	800.3	686.8	639.9
32.5°	481.8	460.7	487.1	437.2	399.4
35°	322.2	329.0	308.6	306.4	258.7
37.5°	201.2	231.5	204.2	217.8	166.4
40°	130.1	167.9	144.5	159.6	122.5
42.5°	106.7	129.3	118.8	126.3	108.9
45°	84.7	105.1	105.1	105.1	85.5
47.5°	46.9	70.3	90.0	71.9	49.9
50°	26.5	35.6	69.6	37.1	28.0
52.5°	18.2	20.4	47.7	21.2	18.9
55°	13.6	14.4	25.7	15.1	14.4
57.5°	10.6	11.3	13.6	11.3	10.6
60°	8.3	8.3	9.8	9.1	8.3
62.5°	6.1	6.1	6.8	6.1	6.1
65°	4.5	4.5	4.5	4.5	4.5
67.5°	2.3	3.0	3.0	3.0	3.0
70°	2.3	1.5	1.5	1.5	2.3
72.5°	1.5	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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