

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: P766431

Luminaire Tested: LD6D45BD010-EU6DR3040509040-6LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P766431
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-EU6DR3040509040-6LBS1MW
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5068.3 lumens
Efficiency: N/A
Efficacy: 131.0 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

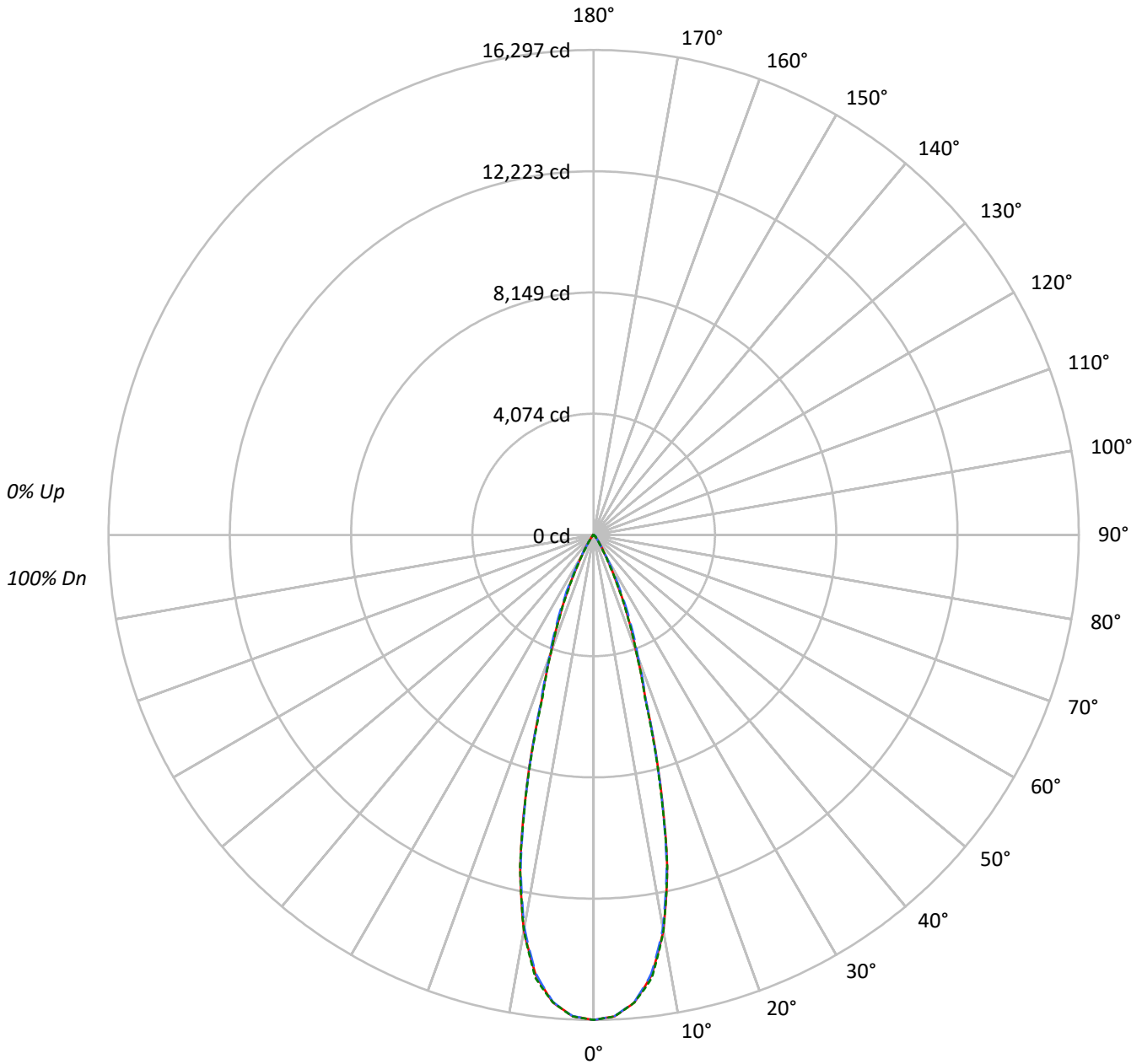


Downlight

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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	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°	1247420	1247420	1247420
5°	1211616	1210202	1211677
10°	1049440	1042041	1049191
15°	684712	681027	677604
20°	340477	353249	340021
25°	171505	193405	167992
30°	68666	74818	59828
35°	31854	30509	25566
40°	13749	15268	12950
45°	9699	12037	9786
50°	3334	8764	3525
55°	1922	3630	2028
60°	1347	1592	1347
65°	869	869	869
70°	537	358	537
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12037 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1433.1	28.3
10°-20°	2308.0	45.5
20°-30°	997.3	19.7
30°-40°	227.3	4.5
40°-50°	78.0	1.5
50°-60°	19.1	0.4
60°-70°	4.9	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°	4738.4	93.5
0°-40°	4965.7	98.0
0°-60°	5062.8	99.9
0°-90°	5068.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5068.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16297	16297	16297	16297	16297	
5°	15769	15754	15750	15783	15770	1434
15°	8641	8536	8594	8566	8551	2314
25°	2031	2108	2290	2054	1989	972
35°	341	348	326	324	274	231
45°	90	111	111	111	90	64
55°	14	15	27	16	15	14
65°	5	5	5	5	5	5
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°	16296.9	16296.9	16296.9	16296.9	16296.9
2.5°	16188.9	16177.7	16184.1	16192.1	16195.3
5°	15768.9	15753.7	15750.5	15783.3	15769.7
7.5°	14921.5	14899.9	14867.1	14941.5	15011.1
10°	13502.1	13478.1	13406.9	13442.1	13498.9
12.5°	11406.6	11329.0	11327.4	11439.4	11424.2
15°	8640.6	8536.5	8594.1	8566.1	8550.9
17.5°	5810.5	5770.5	5847.3	5824.1	5724.1
20°	4179.9	4190.3	4336.7	4263.1	4174.3
22.5°	3050.1	3087.7	3261.3	3071.7	3002.1
25°	2030.7	2107.5	2290.0	2053.9	1989.1
27.5°	1249.0	1284.2	1469.0	1233.0	1197.8
30°	776.9	759.3	846.5	726.5	676.9
32.5°	509.7	487.3	515.3	462.5	422.5
35°	340.9	348.1	326.5	324.1	273.6
37.5°	212.8	244.8	216.0	230.4	176.0
40°	137.6	177.6	152.8	168.8	129.6
42.5°	112.8	136.8	125.6	133.6	115.2
45°	89.6	111.2	111.2	111.2	90.4
47.5°	49.6	74.4	95.2	76.0	52.8
50°	28.0	37.6	73.6	39.2	29.6
52.5°	19.2	21.6	50.4	22.4	20.0
55°	14.4	15.2	27.2	16.0	15.2
57.5°	11.2	12.0	14.4	12.0	11.2
60°	8.8	8.8	10.4	9.6	8.8
62.5°	6.4	6.4	7.2	6.4	6.4
65°	4.8	4.8	4.8	4.8	4.8
67.5°	2.4	3.2	3.2	3.2	3.2
70°	2.4	1.6	1.6	1.6	2.4
72.5°	1.6	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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