

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: P766379

Luminaire Tested: LD6D45BD010-EU6DR3040509024-6LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P766379
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-EU6DR3040509024-6LBS1MW
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4105.7 lumens
Efficiency: N/A
Efficacy: 106.1 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

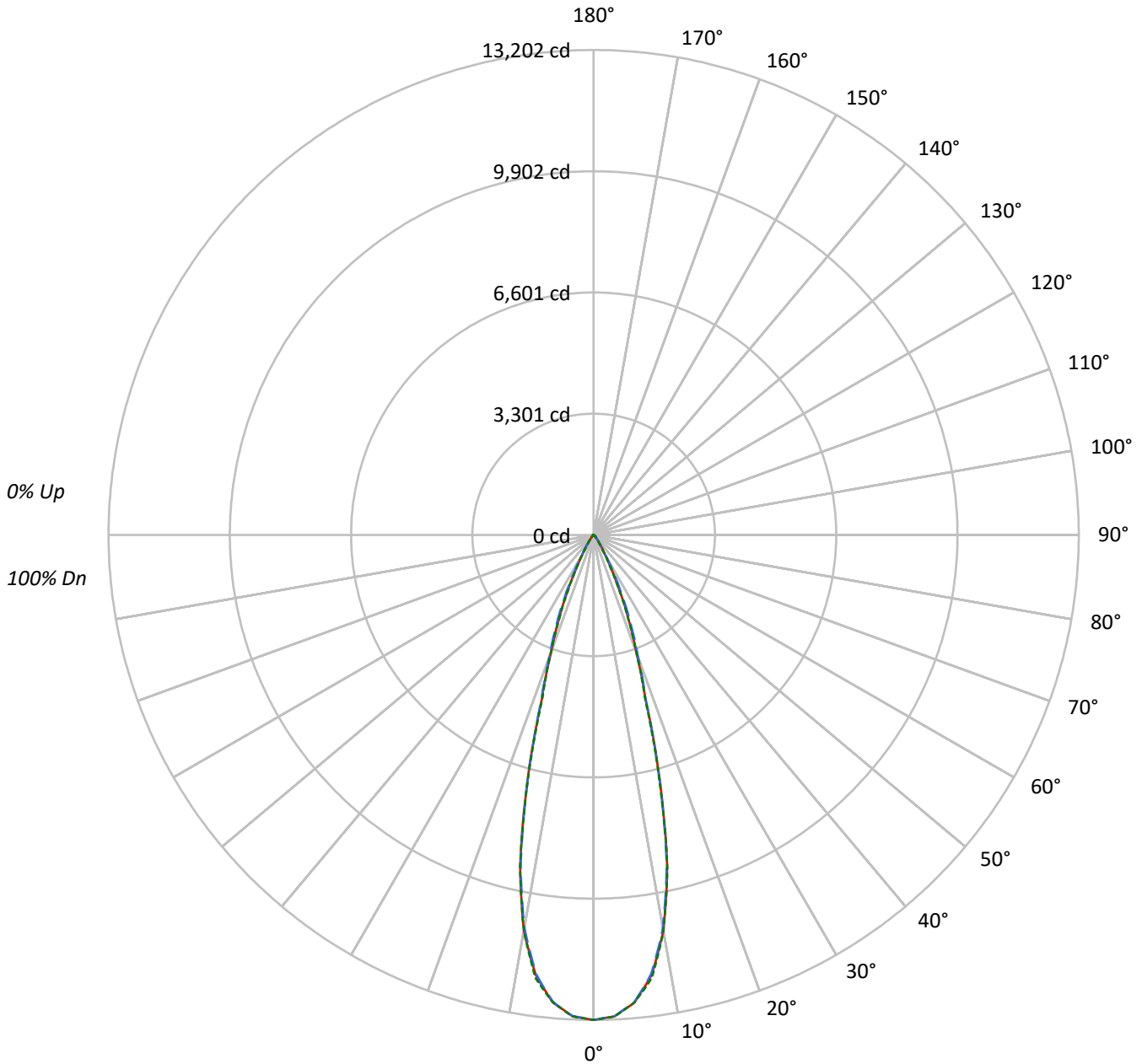
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1010518	1010518	1010518
5°	981508	980363	981562
10°	850132	844139	849937
15°	554673	551694	548920
20°	275809	286162	275443
25°	138939	156675	136084
30°	55629	60614	48470
35°	25799	24715	20716
40°	11141	12370	10492
45°	7859	9753	7924
50°	2703	7097	2858
55°	1561	2936	1641
60°	1087	1286	1087
65°	706	706	706
70°	425	291	425
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 9753 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1160.9	28.3
10°-20°	1869.7	45.5
20°-30°	807.9	19.7
30°-40°	184.1	4.5
40°-50°	63.2	1.5
50°-60°	15.4	0.4
60°-70°	4.0	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°	3838.5	93.5
0°-40°	4022.6	98.0
0°-60°	4101.3	99.9
0°-90°	4105.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4105.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13202	13202	13202	13202	13202	
5°	12774	12762	12759	12786	12775	1162
15°	7000	6915	6962	6939	6927	1874
25°	1645	1707	1855	1664	1611	787
35°	276	282	264	262	222	187
45°	73	90	90	90	73	52
55°	12	12	22	13	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13201.9	13201.9	13201.9	13201.9	13201.9
2.5°	13114.4	13105.3	13110.5	13117.0	13119.6
5°	12774.1	12761.8	12759.2	12785.8	12774.8
7.5°	12087.7	12070.2	12043.6	12103.9	12160.3
10°	10937.8	10918.4	10860.7	10889.2	10935.3
12.5°	9240.3	9177.4	9176.1	9266.9	9254.6
15°	6999.6	6915.3	6962.0	6939.3	6927.0
17.5°	4707.0	4674.6	4736.8	4718.0	4637.0
20°	3386.0	3394.5	3513.1	3453.4	3381.5
22.5°	2470.8	2501.3	2641.9	2488.3	2431.9
25°	1645.1	1707.3	1855.1	1663.8	1611.3
27.5°	1011.8	1040.3	1190.0	998.8	970.3
30°	629.4	615.1	685.8	588.5	548.4
32.5°	412.9	394.7	417.4	374.6	342.2
35°	276.1	282.0	264.5	262.5	221.7
37.5°	172.4	198.3	175.0	186.7	142.6
40°	111.5	143.9	123.8	136.8	105.0
42.5°	91.4	110.8	101.8	108.2	93.3
45°	72.6	90.1	90.1	90.1	73.2
47.5°	40.2	60.3	77.1	61.6	42.8
50°	22.7	30.5	59.6	31.8	24.0
52.5°	15.6	17.5	40.8	18.1	16.2
55°	11.7	12.3	22.0	13.0	12.3
57.5°	9.1	9.7	11.7	9.7	9.1
60°	7.1	7.1	8.4	7.8	7.1
62.5°	5.2	5.2	5.8	5.2	5.2
65°	3.9	3.9	3.9	3.9	3.9
67.5°	1.9	2.6	2.6	2.6	2.6
70°	1.9	1.3	1.3	1.3	1.9
72.5°	1.3	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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