

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: P766387

Luminaire Tested: LD6D45BD010-EU6DR3040509027-6LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P766387
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-EU6DR3040509027-6LBDP1LI
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4880.6 lumens
Efficiency: N/A
Efficacy: 126.1 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

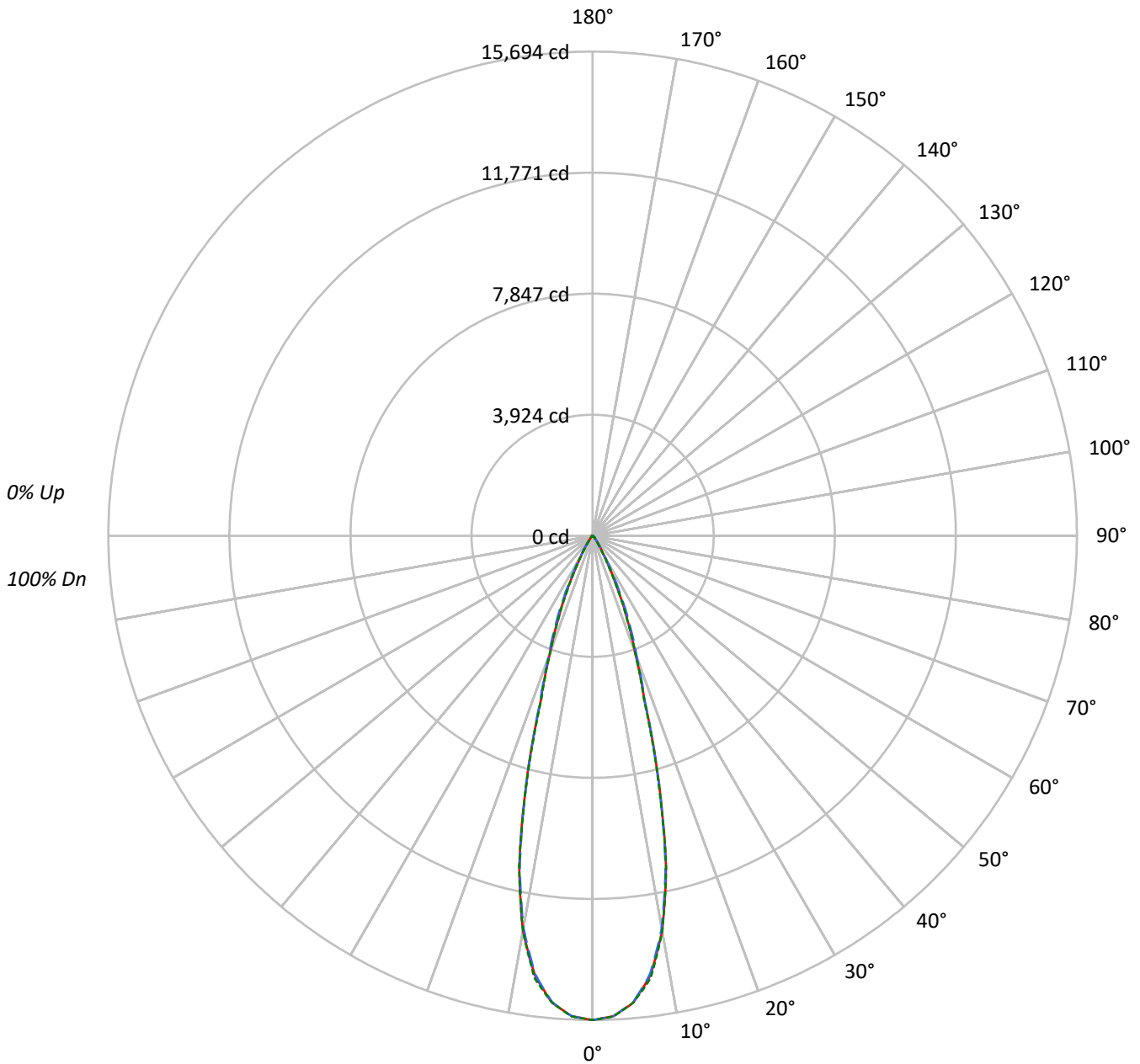
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1201234	1201234	1201234
5°	1166744	1165384	1166805
10°	1010578	1003451	1010337
15°	659354	655812	652515
20°	327868	340167	327428
25°	165154	186243	161776
30°	66129	72051	57609
35°	30668	29378	24622
40°	13239	14708	12470
45°	9342	11593	9428
50°	3215	8443	3394
55°	1855	3496	1948
60°	1301	1531	1301
65°	833	833	833
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: 11593 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1380.0	28.3
10°-20°	2222.5	45.5
20°-30°	960.4	19.7
30°-40°	218.9	4.5
40°-50°	75.2	1.5
50°-60°	18.4	0.4
60°-70°	4.8	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°	4562.9	93.5
0°-40°	4781.8	98.0
0°-60°	4875.3	99.9
0°-90°	4880.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4880.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15694	15694	15694	15694	15694	
5°	15185	15170	15167	15199	15186	1381
15°	8321	8220	8276	8249	8234	2228
25°	1956	2030	2205	1978	1916	936
35°	328	335	314	312	264	223
45°	86	107	107	107	87	61
55°	14	15	26	15	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°	15693.5	15693.5	15693.5	15693.5	15693.5
2.5°	15589.5	15578.7	15584.8	15592.5	15595.6
5°	15184.9	15170.3	15167.2	15198.8	15185.7
7.5°	14369.0	14348.2	14316.6	14388.3	14455.3
10°	13002.1	12979.0	12910.4	12944.3	12999.0
12.5°	10984.2	10909.5	10907.9	11015.8	11001.2
15°	8320.6	8220.4	8275.9	8248.9	8234.3
17.5°	5595.3	5556.8	5630.8	5608.4	5512.1
20°	4025.1	4035.1	4176.1	4105.2	4019.7
22.5°	2937.1	2973.3	3140.5	2957.9	2890.9
25°	1955.5	2029.5	2205.2	1977.9	1915.5
27.5°	1202.7	1236.6	1414.6	1187.3	1153.4
30°	748.2	731.2	815.2	699.6	651.8
32.5°	490.8	469.2	496.2	445.3	406.8
35°	328.2	335.2	314.4	312.1	263.5
37.5°	205.0	235.8	208.0	221.9	169.5
40°	132.5	171.1	147.2	162.6	124.8
42.5°	108.6	131.8	121.0	128.7	111.0
45°	86.3	107.1	107.1	107.1	87.1
47.5°	47.8	71.7	91.7	73.2	50.9
50°	27.0	36.2	70.9	37.8	28.5
52.5°	18.5	20.8	48.5	21.6	19.3
55°	13.9	14.6	26.2	15.4	14.6
57.5°	10.8	11.6	13.9	11.6	10.8
60°	8.5	8.5	10.0	9.2	8.5
62.5°	6.2	6.2	6.9	6.2	6.2
65°	4.6	4.6	4.6	4.6	4.6
67.5°	2.3	3.1	3.1	3.1	3.1
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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