

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: P766412

Luminaire Tested: LD6D45BD010-EU6DR3040509035-6LBDP1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P766412
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-EU6DR3040509035-6LBDP1H
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4839.1 lumens
Efficiency: N/A
Efficacy: 125.0 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

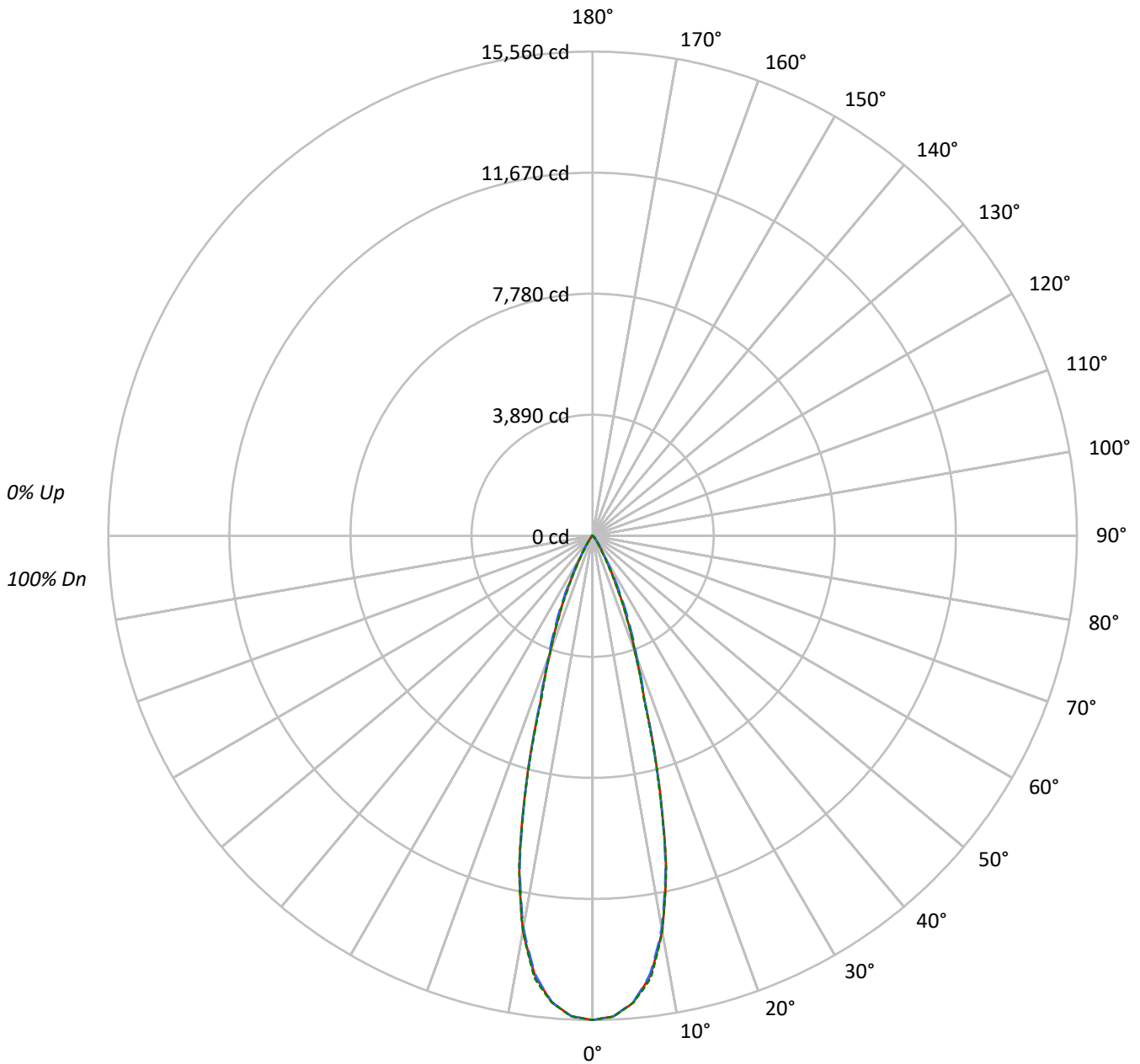
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	1191015	1191015	1191015
5°	1156824	1155479	1156886
10°	1001989	994924	1001748
15°	653743	650233	646968
20°	325074	337276	324642
25°	163752	184655	160399
30°	65564	71441	57123
35°	30406	29126	24416
40°	13130	14578	12370
45°	9266	11496	9342
50°	3179	8371	3370
55°	1842	3470	1935
60°	1286	1516	1286
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: 11496 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1368.3	28.3
10°-20°	2203.6	45.5
20°-30°	952.2	19.7
30°-40°	217.0	4.5
40°-50°	74.5	1.5
50°-60°	18.2	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°	4524.1	93.5
0°-40°	4741.2	98.0
0°-60°	4833.9	99.9
0°-90°	4839.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4839.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15560	15560	15560	15560	15560	
5°	15056	15041	15038	15070	15057	1369
15°	8250	8150	8206	8179	8164	2209
25°	1939	2012	2186	1961	1899	928
35°	325	332	312	309	261	221
45°	86	106	106	106	86	61
55°	14	14	26	15	14	13
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°	15560.0	15560.0	15560.0	15560.0	15560.0
2.5°	15456.9	15446.2	15452.3	15460.0	15463.0
5°	15055.8	15041.3	15038.3	15069.6	15056.6
7.5°	14246.8	14226.2	14194.9	14265.9	14332.4
10°	12891.6	12868.7	12800.7	12834.3	12888.5
12.5°	10890.8	10816.7	10815.2	10922.1	10907.6
15°	8249.8	8150.5	8205.5	8178.8	8164.3
17.5°	5547.8	5509.6	5582.9	5560.8	5465.3
20°	3990.8	4000.8	4140.6	4070.3	3985.5
22.5°	2912.2	2948.1	3113.8	2932.8	2866.3
25°	1938.9	2012.2	2186.4	1961.0	1899.2
27.5°	1192.5	1226.1	1402.6	1177.2	1143.6
30°	741.8	725.0	808.3	693.7	646.3
32.5°	486.6	465.2	492.0	441.6	403.4
35°	325.4	332.3	311.7	309.4	261.3
37.5°	203.2	233.8	206.3	220.0	168.1
40°	131.4	169.6	145.9	161.2	123.8
42.5°	107.7	130.6	119.9	127.6	110.0
45°	85.6	106.2	106.2	106.2	86.3
47.5°	47.4	71.0	90.9	72.6	50.4
50°	26.7	35.9	70.3	37.4	28.3
52.5°	18.3	20.6	48.1	21.4	19.1
55°	13.8	14.5	26.0	15.3	14.5
57.5°	10.7	11.5	13.8	11.5	10.7
60°	8.4	8.4	9.9	9.2	8.4
62.5°	6.1	6.1	6.9	6.1	6.1
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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