

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: P770272

Luminaire Tested: LD6D70BD010-EU6DR3070959024-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P770272
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: LD6D70BD010-EU6DR3070959024-6LBDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5437.8 lumens
Efficiency: N/A
Efficacy: 81.6 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

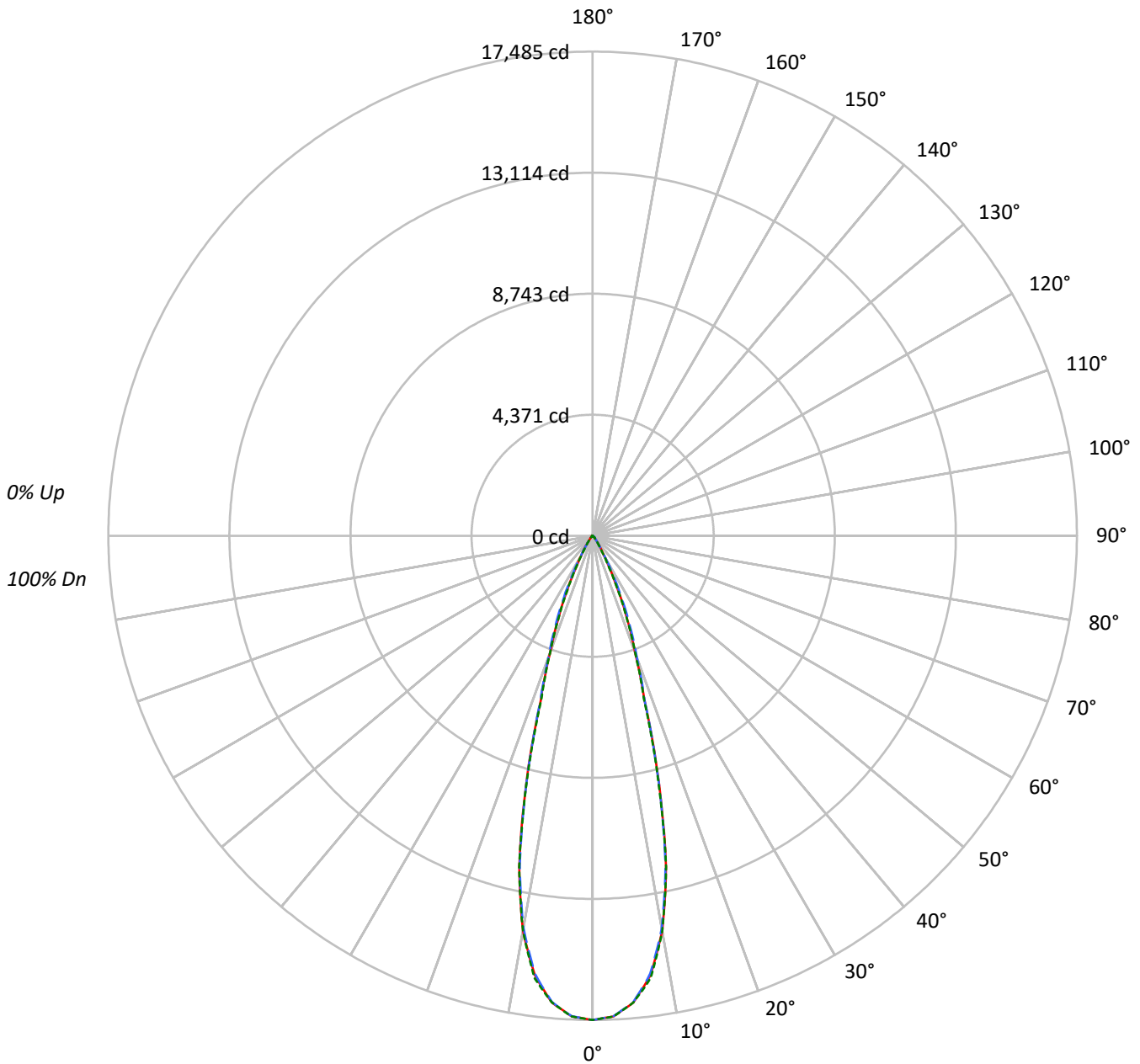
Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1338369	1338369	1338369
5°	1299946	1298432	1300015
10°	1125952	1118016	1125687
15°	734627	730681	727012
20°	365297	379006	364808
25°	184013	207501	180238
30°	73677	80280	64194
35°	34172	32733	27435
40°	14758	16387	13899
45°	10403	12914	10500
50°	3572	9407	3787
55°	2068	3897	2175
60°	1439	1715	1439
65°	942	942	942
70°	582	380	582
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12914 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1537.6	28.3
10°-20°	2476.2	45.5
20°-30°	1070.1	19.7
30°-40°	243.9	4.5
40°-50°	83.7	1.5
50°-60°	20.5	0.4
60°-70°	5.3	0.1
70°-80°	0.6	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°	5083.8	93.5
0°-40°	5327.7	98.0
0°-60°	5431.9	99.9
0°-90°	5437.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5437.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17485	17485	17485	17485	17485	
5°	16918	16902	16899	16934	16919	1539
15°	9270	9159	9221	9191	9174	2482
25°	2179	2261	2457	2204	2134	1043
35°	366	373	350	348	294	248
45°	96	119	119	119	97	68
55°	16	16	29	17	16	15
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°	17485.1	17485.1	17485.1	17485.1	17485.1
2.5°	17369.2	17357.2	17364.1	17372.7	17376.1
5°	16918.5	16902.2	16898.8	16934.0	16919.4
7.5°	16009.4	15986.3	15951.1	16030.9	16105.6
10°	14486.5	14460.8	14384.4	14422.1	14483.1
12.5°	12238.2	12154.9	12153.2	12273.4	12257.1
15°	9270.5	9158.9	9220.7	9190.7	9174.4
17.5°	6234.1	6191.2	6273.6	6248.7	6141.4
20°	4484.6	4495.8	4652.9	4573.9	4478.6
22.5°	3272.5	3312.8	3499.1	3295.6	3220.9
25°	2178.8	2261.2	2456.9	2203.7	2134.1
27.5°	1340.1	1377.8	1576.1	1322.9	1285.1
30°	833.6	814.7	908.3	779.5	726.3
32.5°	546.8	522.8	552.8	496.2	453.3
35°	365.7	373.4	350.3	347.7	293.6
37.5°	228.4	262.7	231.8	247.2	188.9
40°	147.7	190.6	164.0	181.1	139.1
42.5°	121.0	146.8	134.8	143.4	123.6
45°	96.1	119.3	119.3	119.3	97.0
47.5°	53.2	79.8	102.2	81.6	56.7
50°	30.0	40.3	79.0	42.1	31.8
52.5°	20.6	23.2	54.1	24.0	21.5
55°	15.5	16.3	29.2	17.2	16.3
57.5°	12.0	12.9	15.5	12.9	12.0
60°	9.4	9.4	11.2	10.3	9.4
62.5°	6.9	6.9	7.7	6.9	6.9
65°	5.2	5.2	5.2	5.2	5.2
67.5°	2.6	3.4	3.4	3.4	3.4
70°	2.6	1.7	1.7	1.7	2.6
72.5°	1.7	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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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