

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: P766404

Luminaire Tested: LD6D45BD010-EU6DR3040509030-6LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P766404
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-EU6DR3040509030-6LBS1LI
Description: 6 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5292.7 lumens
Efficiency: N/A
Efficacy: 136.8 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

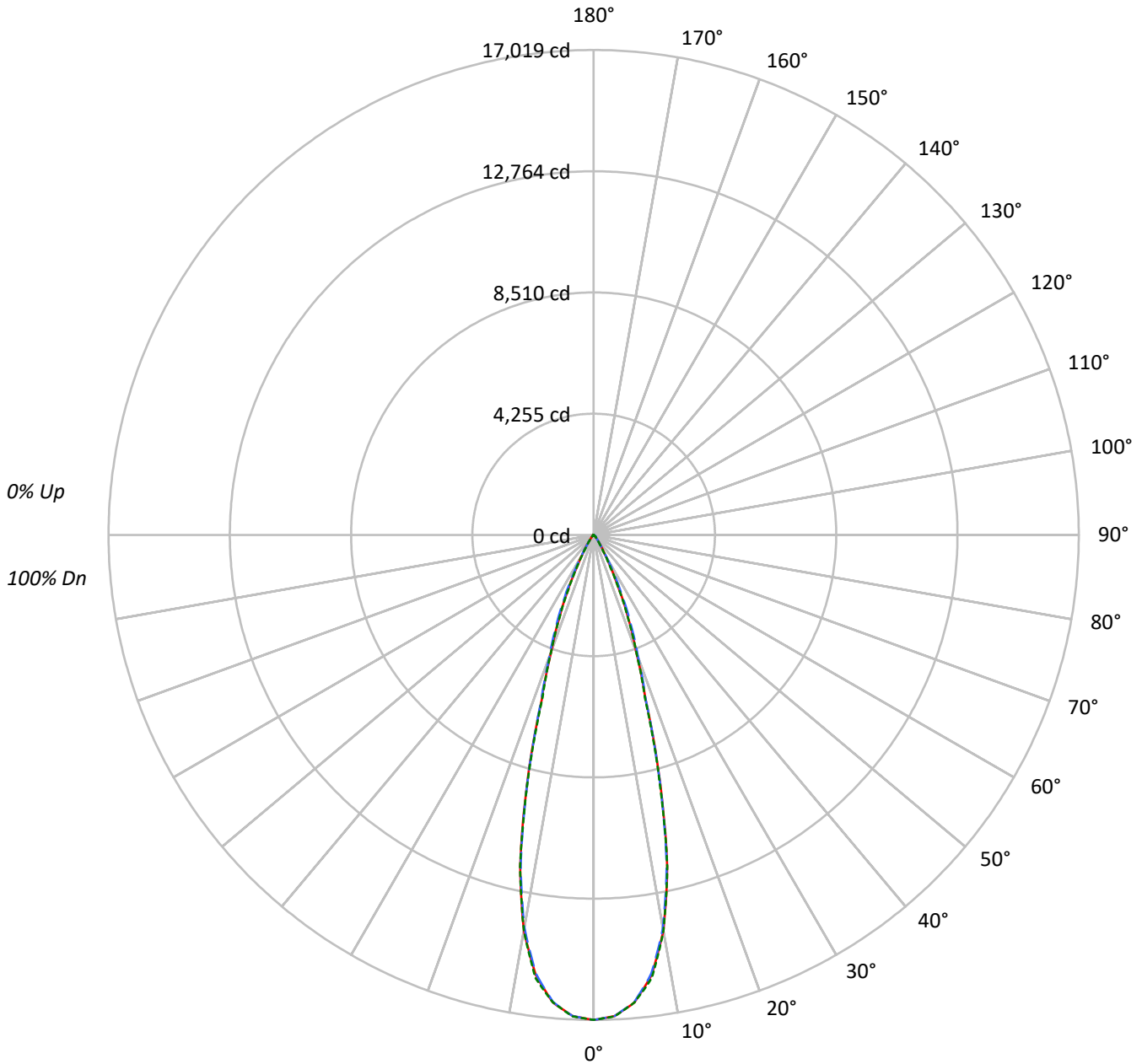
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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						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°	1302669	1302669	1302669
5°	1265270	1263795	1265332
10°	1095919	1088185	1095655
15°	715030	711187	707613
20°	355554	368889	355074
25°	179098	201969	175433
30°	71707	78132	62479
35°	33256	31854	26706
40°	14359	15947	13529
45°	10132	12568	10219
50°	3477	9157	3680
55°	2002	3790	2122
60°	1408	1669	1408
65°	906	906	906
70°	559	380	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12568 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1496.5	28.3
10°-20°	2410.2	45.5
20°-30°	1041.5	19.7
30°-40°	237.4	4.5
40°-50°	81.5	1.5
50°-60°	19.9	0.4
60°-70°	5.2	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°	4948.2	93.5
0°-40°	5185.6	98.0
0°-60°	5287.0	99.9
0°-90°	5292.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5292.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17019	17019	17019	17019	17019	
5°	16467	16451	16448	16482	16468	1498
15°	9023	8915	8975	8946	8930	2416
25°	2121	2201	2391	2145	2077	1015
35°	356	364	341	338	286	241
45°	94	116	116	116	94	66
55°	15	16	28	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°	17018.7	17018.7	17018.7	17018.7	17018.7
2.5°	16905.9	16894.2	16900.8	16909.2	16912.5
5°	16467.2	16451.3	16448.0	16482.2	16468.0
7.5°	15582.3	15559.8	15525.5	15603.2	15675.9
10°	14100.1	14075.0	14000.6	14037.4	14096.7
12.5°	11911.7	11830.7	11829.0	11946.0	11930.1
15°	9023.2	8914.6	8974.7	8945.5	8929.6
17.5°	6067.8	6026.1	6106.3	6082.0	5977.6
20°	4365.0	4375.8	4528.7	4451.9	4359.1
22.5°	3185.2	3224.4	3405.7	3207.7	3135.0
25°	2120.6	2200.9	2391.4	2144.9	2077.2
27.5°	1304.3	1341.1	1534.1	1287.6	1250.8
30°	811.3	792.9	884.0	758.7	706.9
32.5°	532.3	508.9	538.1	483.0	441.2
35°	355.9	363.5	340.9	338.4	285.8
37.5°	222.3	255.7	225.6	240.6	183.8
40°	143.7	185.5	159.6	176.3	135.4
42.5°	117.8	142.9	131.2	139.5	120.3
45°	93.6	116.1	116.1	116.1	94.4
47.5°	51.8	77.7	99.4	79.4	55.1
50°	29.2	39.3	76.9	40.9	30.9
52.5°	20.1	22.6	52.6	23.4	20.9
55°	15.0	15.9	28.4	16.7	15.9
57.5°	11.7	12.5	15.0	12.5	11.7
60°	9.2	9.2	10.9	10.0	9.2
62.5°	6.7	6.7	7.5	6.7	6.7
65°	5.0	5.0	5.0	5.0	5.0
67.5°	2.5	3.3	3.3	3.3	3.3
70°	2.5	1.7	1.7	1.7	2.5
72.5°	1.7	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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