

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P793286

Luminaire Tested: LER6D50D010-EC6DR3040509040-6LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P793286
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: LER6D50D010-EC6DR3040509040-6LBS1MW
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5952.2 lumens
Efficiency: N/A
Efficacy: 126.6 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): 47
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

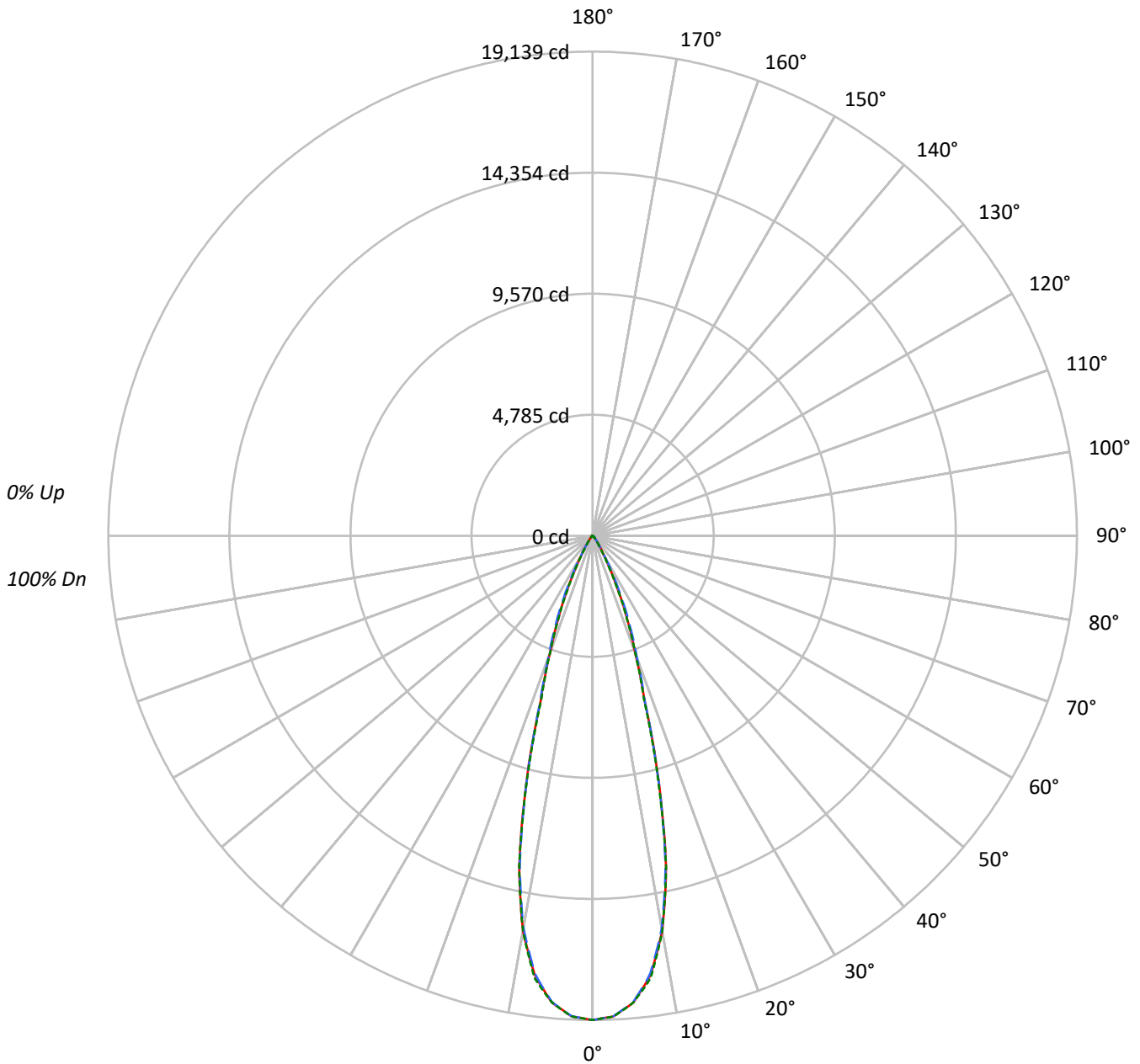


Downlight

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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°	1464987	1464987	1464987
5°	1422929	1421270	1422999
10°	1232473	1223783	1232177
15°	804124	799805	795788
20°	399858	414854	399321
25°	201420	227128	197290
30°	80642	87872	70266
35°	37405	35826	30032
40°	16147	17936	15208
45°	11388	14137	11496
50°	3918	10289	4144
55°	2255	4257	2389
60°	1577	1868	1577
65°	1014	1014	1014
70°	627	425	627
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 14137 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1683.0	28.3
10°-20°	2710.5	45.5
20°-30°	1171.3	19.7
30°-40°	267.0	4.5
40°-50°	91.7	1.5
50°-60°	22.4	0.4
60°-70°	5.8	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°	5564.8	93.5
0°-40°	5831.7	98.0
0°-60°	5945.8	99.9
0°-90°	5952.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5952.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19139	19139	19139	19139	19139	
5°	18519	18501	18498	18536	18520	1684
15°	10148	10025	10093	10060	10042	2717
25°	2385	2475	2689	2412	2336	1142
35°	400	409	383	381	321	272
45°	105	131	131	131	106	75
55°	17	18	32	19	18	16
65°	6	6	6	6	6	6
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°	19139.3	19139.3	19139.3	19139.3	19139.3
2.5°	19012.4	18999.2	19006.8	19016.2	19019.9
5°	18519.1	18501.2	18497.5	18536.0	18520.0
7.5°	17524.0	17498.6	17460.1	17547.4	17629.2
10°	15857.0	15828.8	15745.2	15786.5	15853.2
12.5°	13396.0	13304.8	13302.9	13434.5	13416.6
15°	10147.5	10025.4	10093.0	10060.1	10042.3
17.5°	6823.9	6776.9	6867.1	6839.9	6722.4
20°	4908.9	4921.1	5093.0	5006.6	4902.3
22.5°	3582.0	3626.2	3830.1	3607.4	3525.7
25°	2384.9	2475.1	2689.3	2412.1	2336.0
27.5°	1466.8	1508.2	1725.2	1448.0	1406.7
30°	912.4	891.7	994.2	853.2	795.0
32.5°	598.6	572.3	605.1	543.1	496.1
35°	400.3	408.8	383.4	380.6	321.4
37.5°	250.0	287.5	253.7	270.6	206.7
40°	161.6	208.6	179.5	198.3	152.2
42.5°	132.5	160.7	147.5	156.9	135.3
45°	105.2	130.6	130.6	130.6	106.2
47.5°	58.3	87.4	111.8	89.3	62.0
50°	32.9	44.2	86.4	46.0	34.8
52.5°	22.6	25.4	59.2	26.3	23.5
55°	16.9	17.9	31.9	18.8	17.9
57.5°	13.2	14.1	16.9	14.1	13.2
60°	10.3	10.3	12.2	11.3	10.3
62.5°	7.5	7.5	8.5	7.5	7.5
65°	5.6	5.6	5.6	5.6	5.6
67.5°	2.8	3.8	3.8	3.8	3.8
70°	2.8	1.9	1.9	1.9	2.8
72.5°	1.9	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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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(END OF REPORT)