

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: P793273

Luminaire Tested: LER6D50D010-EC6DR3040509035-6LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P793273
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-EC6DR3040509035-6LBDP1LI
Description: 6 INCH ROUND DEEP 45° CUTOFF 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: 5967.2 lumens
Efficiency: N/A
Efficacy: 127.0 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): 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

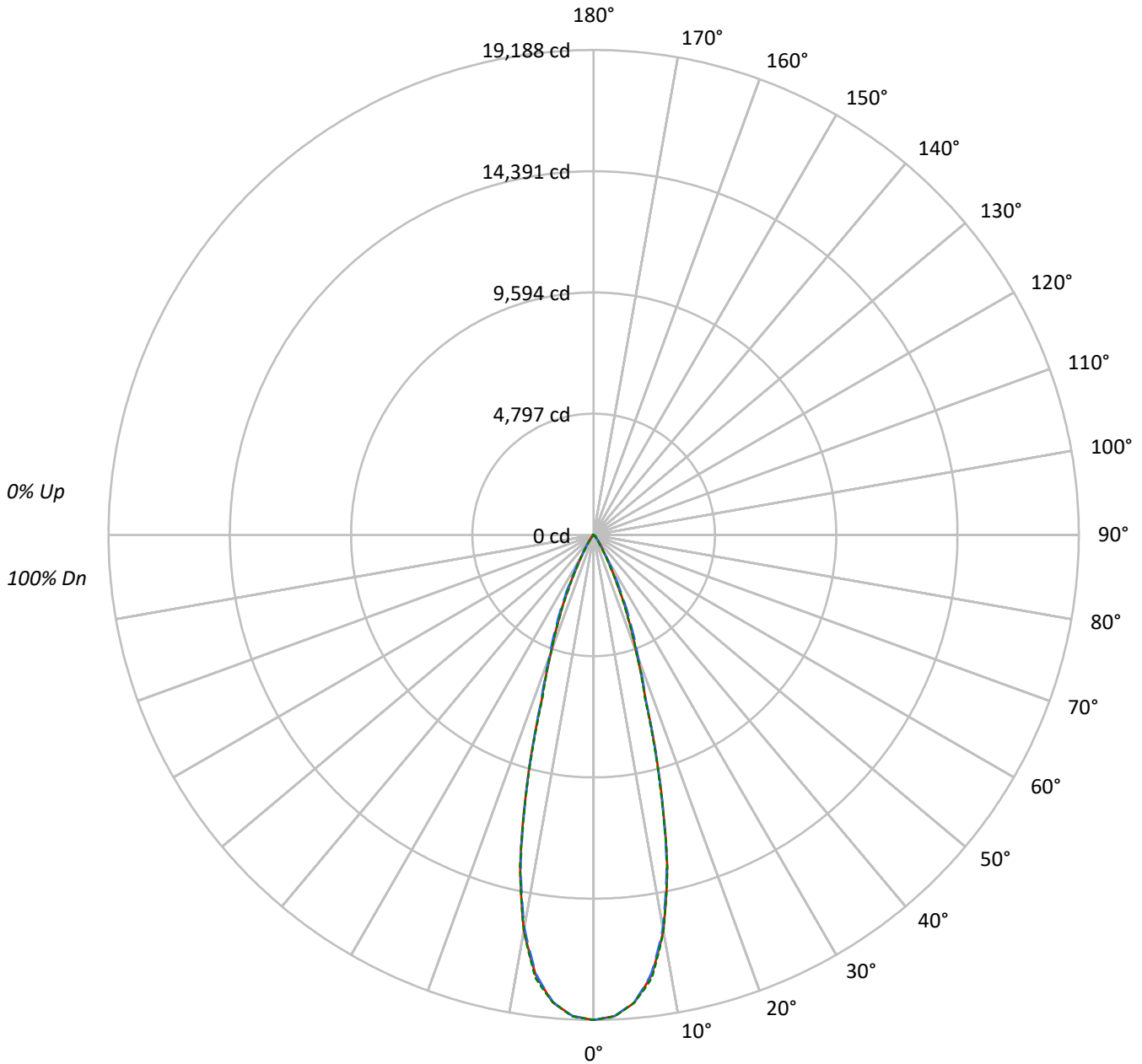


Downlight

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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	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°	1468676	1468676	1468676
5°	1426518	1424850	1426587
10°	1235582	1226861	1235286
15°	806153	801826	797792
20°	400860	415905	400323
25°	201927	227703	197788
30°	80845	88093	70443
35°	37498	35919	30107
40°	16187	17976	15248
45°	11420	14170	11528
50°	3930	10324	4156
55°	2269	4270	2389
60°	1592	1868	1592
65°	1032	1032	1032
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: 14170 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1687.2	28.3
10°-20°	2717.3	45.5
20°-30°	1174.2	19.7
30°-40°	267.6	4.5
40°-50°	91.9	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°	5578.8	93.5
0°-40°	5846.5	98.0
0°-60°	5960.8	99.9
0°-90°	5967.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5967.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19188	19188	19188	19188	19188	
5°	18566	18548	18544	18583	18567	1689
15°	10173	10051	10118	10086	10068	2724
25°	2391	2481	2696	2418	2342	1144
35°	401	410	384	382	322	272
45°	106	131	131	131	106	75
55°	17	18	32	19	18	17
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°	19187.5	19187.5	19187.5	19187.5	19187.5
2.5°	19060.3	19047.1	19054.7	19064.1	19067.9
5°	18565.8	18547.9	18544.1	18582.7	18566.7
7.5°	17568.1	17542.7	17504.1	17591.7	17673.6
10°	15897.0	15868.7	15784.8	15826.3	15893.2
12.5°	13429.7	13338.4	13336.5	13468.4	13450.5
15°	10173.1	10050.6	10118.5	10085.5	10067.6
17.5°	6841.1	6794.0	6884.4	6857.1	6739.4
20°	4921.2	4933.5	5105.9	5019.2	4914.6
22.5°	3591.1	3635.3	3839.8	3616.5	3534.5
25°	2390.9	2481.3	2696.1	2418.2	2341.9
27.5°	1470.5	1512.0	1729.6	1451.7	1410.2
30°	914.7	894.0	996.7	855.4	797.0
32.5°	600.1	573.7	606.7	544.5	497.4
35°	401.3	409.8	384.4	381.5	322.2
37.5°	250.6	288.3	254.4	271.3	207.2
40°	162.0	209.1	179.9	198.8	152.6
42.5°	132.8	161.1	147.9	157.3	135.7
45°	105.5	130.9	130.9	130.9	106.5
47.5°	58.4	87.6	112.1	89.5	62.2
50°	33.0	44.3	86.7	46.2	34.9
52.5°	22.6	25.4	59.3	26.4	23.6
55°	17.0	17.9	32.0	18.8	17.9
57.5°	13.2	14.1	17.0	14.1	13.2
60°	10.4	10.4	12.2	11.3	10.4
62.5°	7.5	7.5	8.5	7.5	7.5
65°	5.7	5.7	5.7	5.7	5.7
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



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Scaled Data Report





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

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