

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: P793275

Luminaire Tested: LER6D50D010-EC6DR3040509035-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P793275
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-EC6DR3040509035-6LBS1B
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5608.8 lumens
Efficiency: N/A
Efficacy: 119.3 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

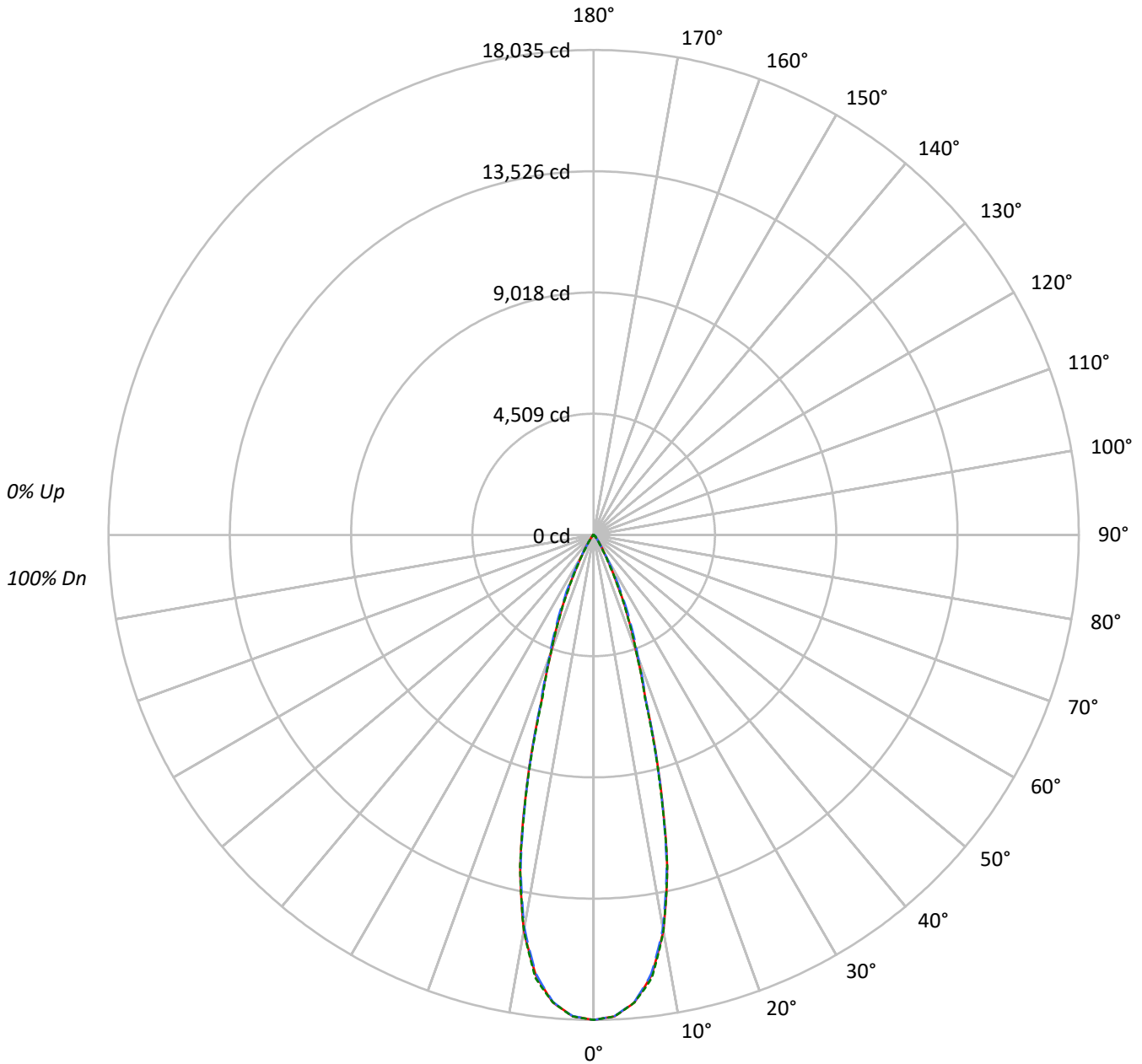
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1380452	1380452	1380452
5°	1340823	1339255	1340892
10°	1161355	1153163	1161083
15°	757727	753654	749866
20°	376782	390914	376277
25°	189799	214029	185905
30°	75993	82799	66209
35°	35246	33761	28294
40°	15218	16897	14329
45°	10738	13325	10836
50°	3691	9705	3906
55°	2122	4017	2242
60°	1485	1760	1485
65°	960	960	960
70°	604	403	604
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 13325 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1585.9	28.3
10°-20°	2554.1	45.5
20°-30°	1103.7	19.7
30°-40°	251.6	4.5
40°-50°	86.4	1.5
50°-60°	21.1	0.4
60°-70°	5.5	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°	5243.7	93.5
0°-40°	5495.2	98.0
0°-60°	5602.7	99.9
0°-90°	5608.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5608.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18035	18035	18035	18035	18035	
5°	17450	17434	17430	17466	17451	1587
15°	9562	9447	9511	9480	9463	2560
25°	2247	2332	2534	2273	2201	1076
35°	377	385	361	359	303	256
45°	99	123	123	123	100	70
55°	16	17	30	18	17	16
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°	18034.9	18034.9	18034.9	18034.9	18034.9
2.5°	17915.3	17903.0	17910.0	17918.9	17922.4
5°	17450.5	17433.7	17430.1	17466.4	17451.4
7.5°	16512.8	16488.9	16452.6	16534.9	16612.0
10°	14942.0	14915.4	14836.6	14875.6	14938.5
12.5°	12623.0	12537.1	12535.3	12659.3	12642.5
15°	9562.0	9446.9	9510.6	9479.6	9462.8
17.5°	6430.2	6385.9	6470.9	6445.2	6334.5
20°	4625.6	4637.1	4799.1	4717.7	4619.4
22.5°	3375.3	3417.0	3609.1	3399.3	3322.2
25°	2247.3	2332.3	2534.2	2273.0	2201.2
27.5°	1382.2	1421.2	1625.7	1364.5	1325.5
30°	859.8	840.3	936.8	804.0	749.1
32.5°	564.0	539.2	570.2	511.8	467.5
35°	377.2	385.2	361.3	358.6	302.8
37.5°	235.5	270.9	239.1	255.0	194.8
40°	152.3	196.6	169.1	186.8	143.4
42.5°	124.8	151.4	139.0	147.9	127.5
45°	99.2	123.1	123.1	123.1	100.1
47.5°	54.9	82.3	105.4	84.1	58.4
50°	31.0	41.6	81.5	43.4	32.8
52.5°	21.3	23.9	55.8	24.8	22.1
55°	15.9	16.8	30.1	17.7	16.8
57.5°	12.4	13.3	15.9	13.3	12.4
60°	9.7	9.7	11.5	10.6	9.7
62.5°	7.1	7.1	8.0	7.1	7.1
65°	5.3	5.3	5.3	5.3	5.3
67.5°	2.7	3.5	3.5	3.5	3.5
70°	2.7	1.8	1.8	1.8	2.7
72.5°	1.8	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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