

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: P793763

Luminaire Tested: LER6D55D010-EC6DR3055659040-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P793763
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: LER6D55D010-EC6DR3055659040-6LBS1B
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6637.7 lumens
Efficiency: N/A
Efficacy: 114.1 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

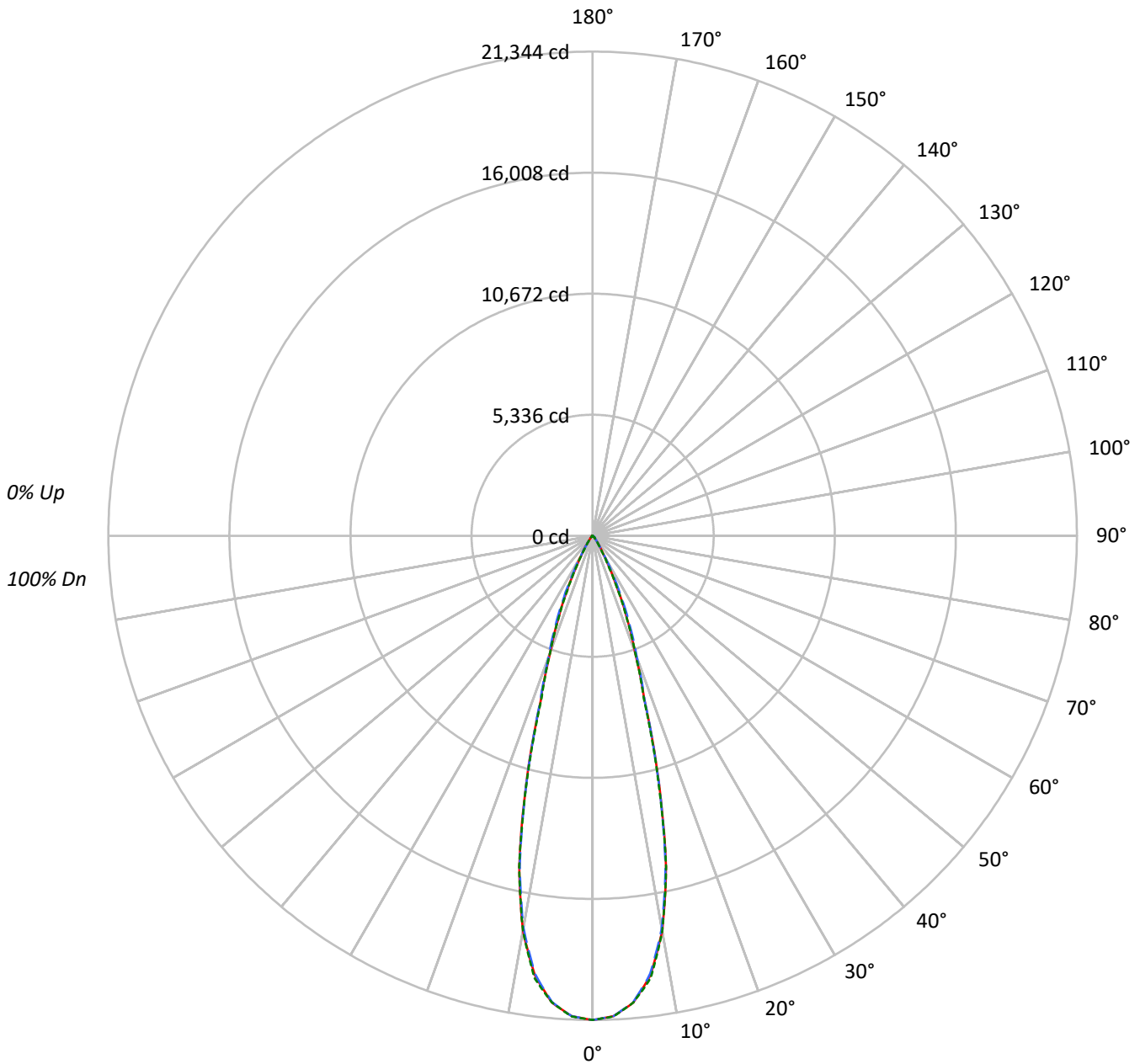
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1633704	1633704	1633704
5°	1586805	1584953	1586889
10°	1374413	1364720	1374086
15°	896736	891918	887441
20°	445905	462636	445311
25°	224620	253293	220017
30°	89931	97992	78353
35°	41713	39947	33490
40°	18006	19994	16966
45°	12708	15772	12817
50°	4370	11479	4620
55°	2522	4751	2656
60°	1760	2082	1760
65°	1141	1141	1141
70°	694	470	694
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15772 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1876.8	28.3
10°-20°	3022.7	45.5
20°-30°	1306.2	19.7
30°-40°	297.7	4.5
40°-50°	102.2	1.5
50°-60°	25.0	0.4
60°-70°	6.5	0.1
70°-80°	0.7	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°	6205.7	93.5
0°-40°	6503.4	98.0
0°-60°	6630.6	99.9
0°-90°	6637.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6637.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21344	21344	21344	21344	21344	
5°	20652	20632	20628	20671	20653	1878
15°	11316	11180	11255	11219	11199	3030
25°	2660	2760	2999	2690	2605	1273
35°	446	456	428	424	358	303
45°	117	146	146	146	118	83
55°	19	20	36	21	20	18
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°	21343.5	21343.5	21343.5	21343.5	21343.5
2.5°	21202.1	21187.4	21195.8	21206.2	21210.4
5°	20651.9	20632.0	20627.8	20670.8	20653.0
7.5°	19542.2	19513.9	19470.9	19568.4	19659.6
10°	17683.2	17651.8	17558.5	17604.6	17679.0
12.5°	14938.8	14837.1	14835.0	14981.7	14961.8
15°	11316.2	11180.0	11255.4	11218.8	11198.9
17.5°	7609.8	7557.4	7658.0	7627.6	7496.6
20°	5474.2	5487.8	5679.6	5583.2	5466.9
22.5°	3994.6	4043.8	4271.2	4022.9	3931.7
25°	2659.6	2760.2	2999.1	2689.9	2605.1
27.5°	1635.8	1681.9	1923.9	1614.8	1568.7
30°	1017.5	994.5	1108.7	951.5	886.5
32.5°	667.5	638.2	674.8	605.7	553.3
35°	446.4	455.8	427.5	424.4	358.4
37.5°	278.7	320.7	282.9	301.8	230.5
40°	180.2	232.6	200.1	221.1	169.8
42.5°	147.8	179.2	164.5	175.0	150.9
45°	117.4	145.7	145.7	145.7	118.4
47.5°	65.0	97.5	124.7	99.5	69.2
50°	36.7	49.3	96.4	51.3	38.8
52.5°	25.1	28.3	66.0	29.3	26.2
55°	18.9	19.9	35.6	21.0	19.9
57.5°	14.7	15.7	18.9	15.7	14.7
60°	11.5	11.5	13.6	12.6	11.5
62.5°	8.4	8.4	9.4	8.4	8.4
65°	6.3	6.3	6.3	6.3	6.3
67.5°	3.1	4.2	4.2	4.2	4.2
70°	3.1	2.1	2.1	2.1	3.1
72.5°	2.1	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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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