

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: P749907

Luminaire Tested: LD4D55D010-EU4DR3055659035-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D55D010-EU4DR3055659035-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 4347.0 lumens
Efficiency: N/A
Efficacy: 74.7 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

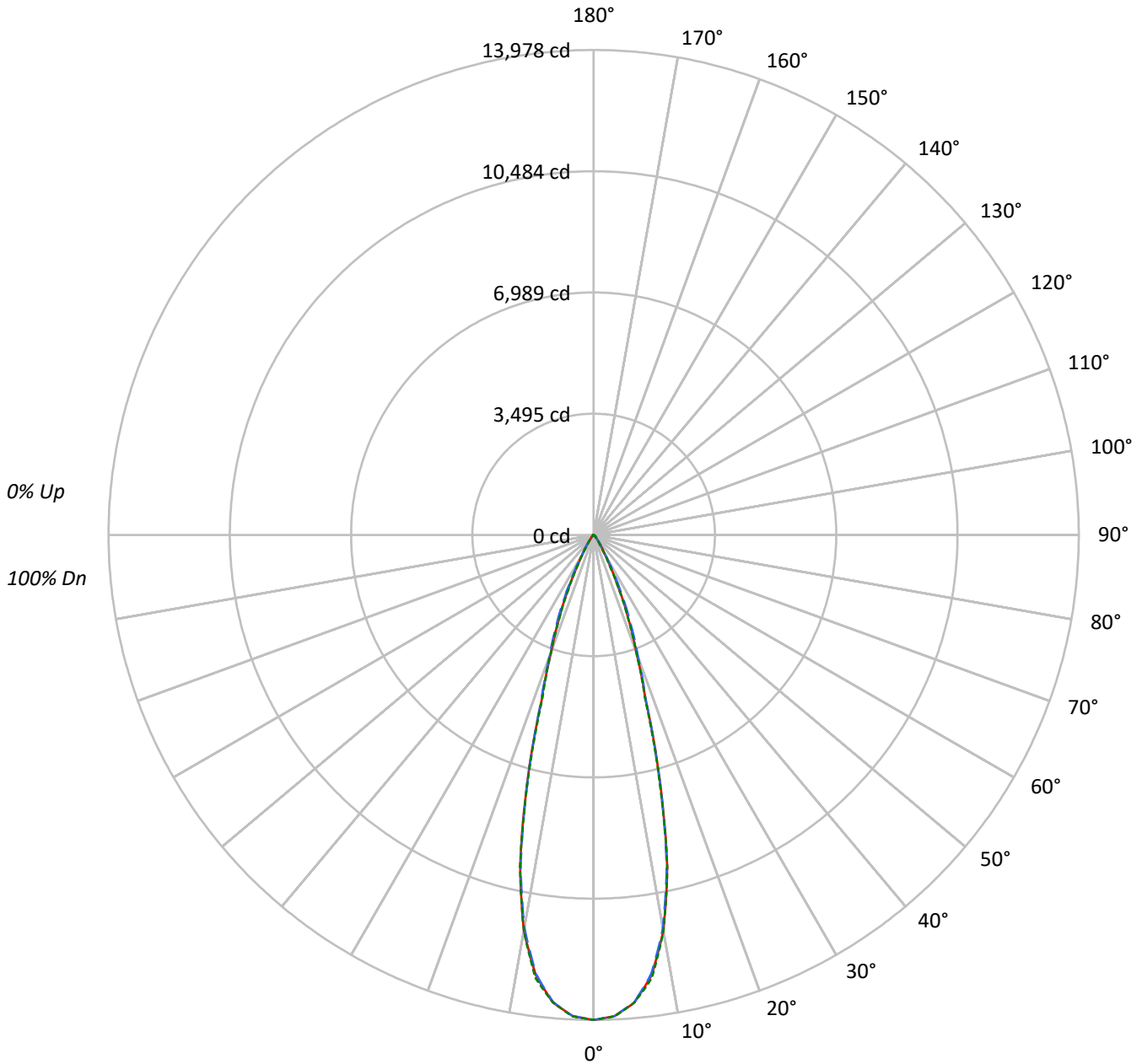
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	1069901	1069901	1069901
5°	1039189	1037975	1039242
10°	900093	893751	899883
15°	587266	584112	581180
20°	292019	302975	291628
25°	147098	165881	144082
30°	58900	64176	51316
35°	27313	26164	21931
40°	11791	13100	11111
45°	8324	10327	8389
50°	2858	7514	3025
55°	1655	3109	1735
60°	1148	1362	1148
65°	743	743	743
70°	470	313	470
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10327 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1229.1	28.3
10°-20°	1979.5	45.5
20°-30°	855.4	19.7
30°-40°	195.0	4.5
40°-50°	66.9	1.5
50°-60°	16.3	0.4
60°-70°	4.2	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°	4064.1	93.5
0°-40°	4259.0	98.0
0°-60°	4342.3	99.9
0°-90°	4347.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4347.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13978	13978	13978	13978	13978	
5°	13525	13512	13509	13537	13526	1230
15°	7411	7322	7371	7347	7334	1984
25°	1742	1808	1964	1762	1706	834
35°	292	298	280	278	235	198
45°	77	95	95	95	78	55
55°	12	13	23	14	13	12
65°	4	4	4	4	4	4
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°	13977.7	13977.7	13977.7	13977.7	13977.7
2.5°	13885.1	13875.5	13881.0	13887.8	13890.6
5°	13524.8	13511.8	13509.0	13537.2	13525.5
7.5°	12798.1	12779.5	12751.4	12815.2	12874.9
10°	11580.6	11560.0	11499.0	11529.2	11577.9
12.5°	9783.3	9716.8	9715.4	9811.5	9798.4
15°	7410.9	7321.7	7371.1	7347.1	7334.1
17.5°	4983.6	4949.3	5015.2	4995.3	4909.5
20°	3585.0	3593.9	3719.5	3656.4	3580.2
22.5°	2616.0	2648.3	2797.2	2634.6	2574.8
25°	1741.7	1807.6	1964.1	1761.6	1706.0
27.5°	1071.3	1101.4	1260.0	1057.5	1027.3
30°	666.4	651.3	726.1	623.1	580.6
32.5°	437.1	417.9	442.0	396.7	362.3
35°	292.3	298.5	280.0	277.9	234.7
37.5°	182.5	210.0	185.3	197.6	151.0
40°	118.0	152.3	131.1	144.8	111.2
42.5°	96.8	117.4	107.7	114.6	98.8
45°	76.9	95.4	95.4	95.4	77.5
47.5°	42.5	63.8	81.7	65.2	45.3
50°	24.0	32.3	63.1	33.6	25.4
52.5°	16.5	18.5	43.2	19.2	17.2
55°	12.4	13.0	23.3	13.7	13.0
57.5°	9.6	10.3	12.4	10.3	9.6
60°	7.5	7.5	8.9	8.2	7.5
62.5°	5.5	5.5	6.2	5.5	5.5
65°	4.1	4.1	4.1	4.1	4.1
67.5°	2.1	2.7	2.7	2.7	2.7
70°	2.1	1.4	1.4	1.4	2.1
72.5°	1.4	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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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