

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: P749868

Luminaire Tested: LD4D55D010-EU4DR3055659024-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749868
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-EU4DR3055659024-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3686.1 lumens
Efficiency: N/A
Efficacy: 63.3 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): 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

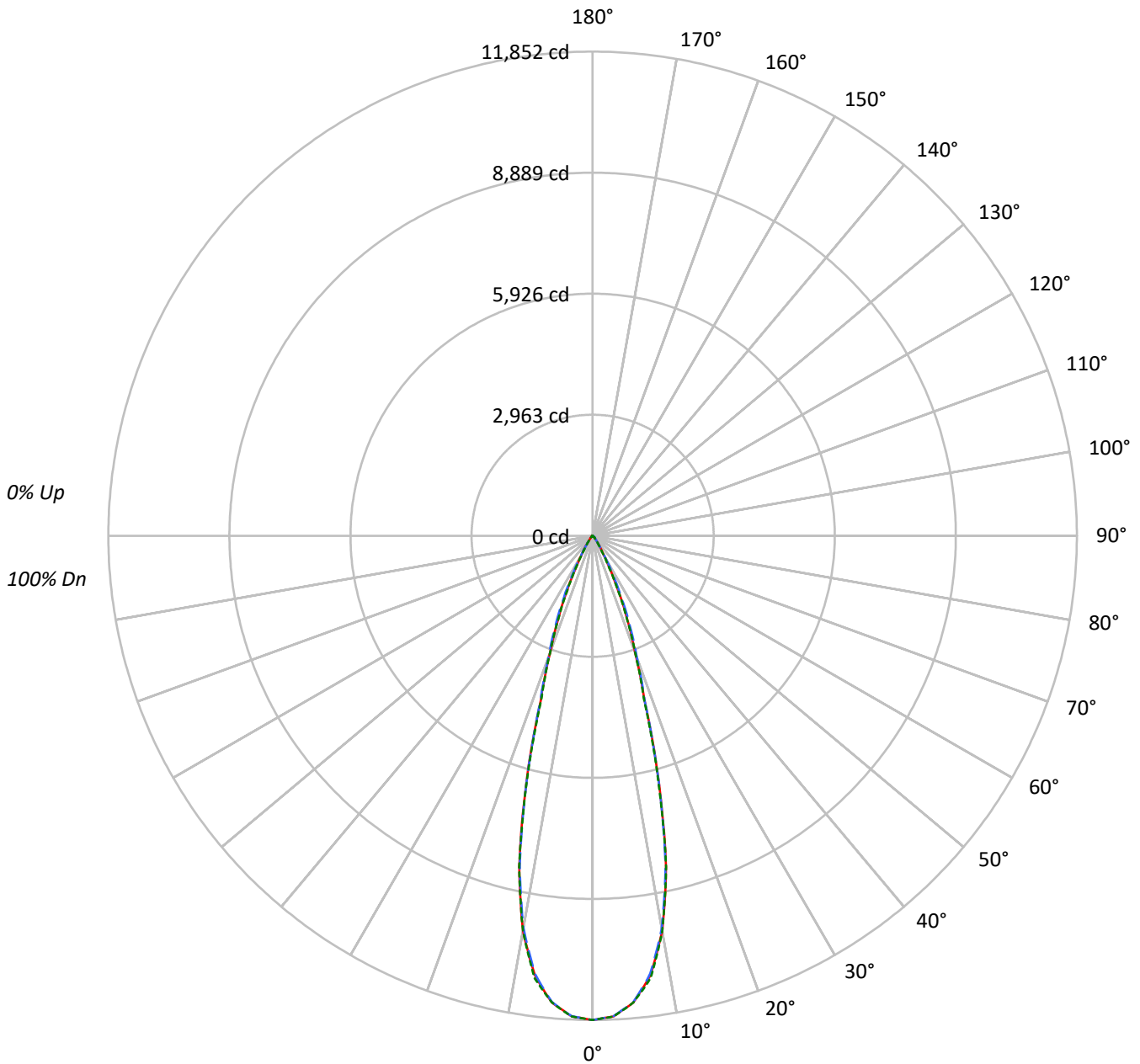


Downlight

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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						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	907231	907231	907231
5°	881191	880162	881230
10°	763244	757858	763065
15°	497974	495304	492816
20°	247617	256912	247292
25°	124733	140662	122183
30°	49937	54418	43512
35°	23164	22183	18595
40°	10002	11101	9422
45°	7058	8757	7123
50°	2429	6371	2560
55°	1401	2642	1481
60°	980	1163	980
65°	634	634	634
70°	380	269	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8757 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1042.2	28.3
10°-20°	1678.6	45.5
20°-30°	725.4	19.7
30°-40°	165.3	4.5
40°-50°	56.8	1.5
50°-60°	13.9	0.4
60°-70°	3.6	0.1
70°-80°	0.4	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°	3446.2	93.5
0°-40°	3611.5	98.0
0°-60°	3682.1	99.9
0°-90°	3686.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3686.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11852	11852	11852	11852	11852	
5°	11468	11457	11455	11479	11469	1043
15°	6284	6208	6250	6230	6219	1683
25°	1477	1533	1666	1494	1447	707
35°	248	253	237	236	199	168
45°	65	81	81	81	66	46
55°	10	11	20	12	11	10
65°	4	4	4	4	4	3
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°	11852.5	11852.5	11852.5	11852.5	11852.5
2.5°	11774.0	11765.8	11770.5	11776.3	11778.6
5°	11468.5	11457.4	11455.1	11478.9	11469.0
7.5°	10852.2	10836.5	10812.6	10866.8	10917.4
10°	9819.9	9802.4	9750.6	9776.2	9817.6
12.5°	8295.8	8239.4	8238.2	8319.7	8308.6
15°	6284.1	6208.5	6250.4	6230.0	6219.0
17.5°	4225.9	4196.8	4252.7	4235.8	4163.0
20°	3039.9	3047.5	3154.0	3100.5	3035.9
22.5°	2218.3	2245.6	2371.9	2234.0	2183.4
25°	1476.9	1532.8	1665.5	1493.8	1446.7
27.5°	908.4	934.0	1068.4	896.7	871.1
30°	565.0	552.2	615.7	528.4	492.3
32.5°	370.7	354.4	374.8	336.3	307.3
35°	247.9	253.1	237.4	235.7	199.0
37.5°	154.8	178.1	157.1	167.6	128.0
40°	100.1	129.2	111.1	122.8	94.3
42.5°	82.1	99.5	91.4	97.2	83.8
45°	65.2	80.9	80.9	80.9	65.8
47.5°	36.1	54.1	69.2	55.3	38.4
50°	20.4	27.4	53.5	28.5	21.5
52.5°	14.0	15.7	36.7	16.3	14.5
55°	10.5	11.1	19.8	11.6	11.1
57.5°	8.1	8.7	10.5	8.7	8.1
60°	6.4	6.4	7.6	7.0	6.4
62.5°	4.7	4.7	5.2	4.7	4.7
65°	3.5	3.5	3.5	3.5	3.5
67.5°	1.7	2.3	2.3	2.3	2.3
70°	1.7	1.2	1.2	1.2	1.7
72.5°	1.2	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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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