

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: P749883

Luminaire Tested: LD4D55D010-EU4DR3055659027-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749883
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-EU4DR3055659027-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5445.7 lumens
Efficiency: N/A
Efficacy: 93.6 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

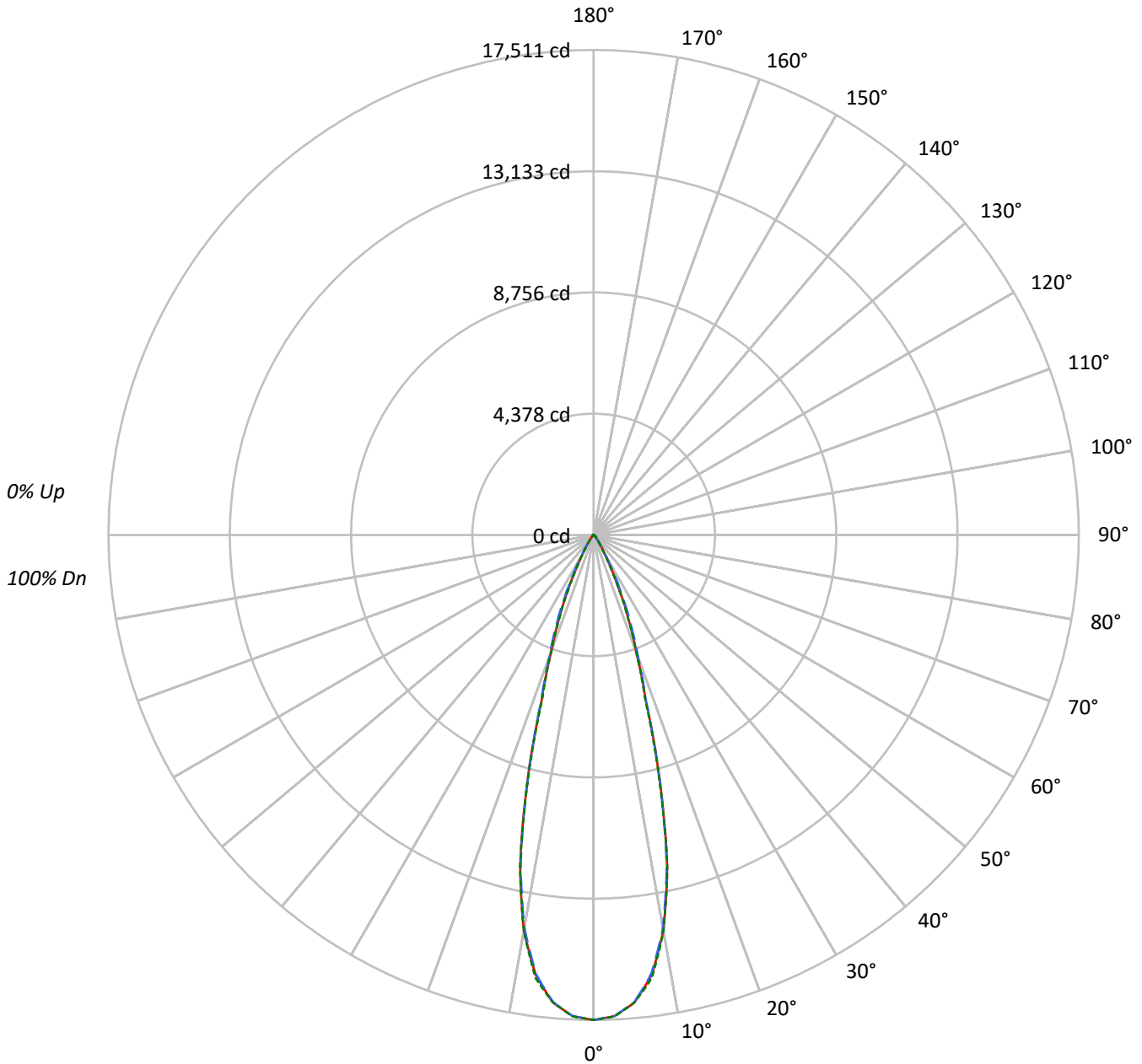
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1340321	1340321	1340321
5°	1301836	1300323	1301905
10°	1127592	1119640	1127320
15°	735697	731743	728066
20°	365826	379551	365337
25°	184275	207805	180500
30°	73784	80395	64282
35°	34219	32780	27472
40°	14778	16407	13919
45°	10424	12936	10511
50°	3584	9419	3787
55°	2068	3897	2175
60°	1454	1715	1454
65°	942	942	942
70°	582	380	582
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12936 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1539.8	28.3
10°-20°	2479.8	45.5
20°-30°	1071.6	19.7
30°-40°	244.2	4.5
40°-50°	83.9	1.5
50°-60°	20.5	0.4
60°-70°	5.3	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°	5091.2	93.5
0°-40°	5335.5	98.0
0°-60°	5439.8	99.9
0°-90°	5445.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5445.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17511	17511	17511	17511	17511	
5°	16943	16927	16923	16959	16944	1541
15°	9284	9172	9234	9204	9188	2486
25°	2182	2264	2460	2207	2137	1044
35°	366	374	351	348	294	248
45°	96	120	120	120	97	68
55°	16	16	29	17	16	15
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°	17510.6	17510.6	17510.6	17510.6	17510.6
2.5°	17394.5	17382.5	17389.3	17397.9	17401.4
5°	16943.1	16926.8	16923.4	16958.6	16944.0
7.5°	16032.7	16009.5	15974.3	16054.2	16129.0
10°	14507.6	14481.8	14405.3	14443.1	14504.1
12.5°	12256.0	12172.6	12170.9	12291.3	12274.9
15°	9284.0	9172.2	9234.1	9204.0	9187.7
17.5°	6243.2	6200.2	6282.8	6257.8	6150.4
20°	4491.1	4502.3	4659.6	4580.5	4485.1
22.5°	3277.2	3317.6	3504.2	3300.4	3225.6
25°	2181.9	2264.5	2460.5	2206.9	2137.2
27.5°	1342.0	1379.8	1578.4	1324.8	1287.0
30°	834.8	815.9	909.6	780.6	727.3
32.5°	547.6	523.6	553.7	496.9	453.9
35°	366.2	374.0	350.8	348.2	294.0
37.5°	228.7	263.1	232.1	247.6	189.1
40°	147.9	190.9	164.2	181.4	139.3
42.5°	121.2	147.0	135.0	143.6	123.8
45°	96.3	119.5	119.5	119.5	97.1
47.5°	53.3	80.0	102.3	81.7	56.7
50°	30.1	40.4	79.1	42.1	31.8
52.5°	20.6	23.2	54.2	24.1	21.5
55°	15.5	16.3	29.2	17.2	16.3
57.5°	12.0	12.9	15.5	12.9	12.0
60°	9.5	9.5	11.2	10.3	9.5
62.5°	6.9	6.9	7.7	6.9	6.9
65°	5.2	5.2	5.2	5.2	5.2
67.5°	2.6	3.4	3.4	3.4	3.4
70°	2.6	1.7	1.7	1.7	2.6
72.5°	1.7	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

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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