

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: P749900

Luminaire Tested: LD4D55D010-EU4DR3055659030-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749900
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-EU4DR3055659030-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5905.6 lumens
Efficiency: N/A
Efficacy: 101.5 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

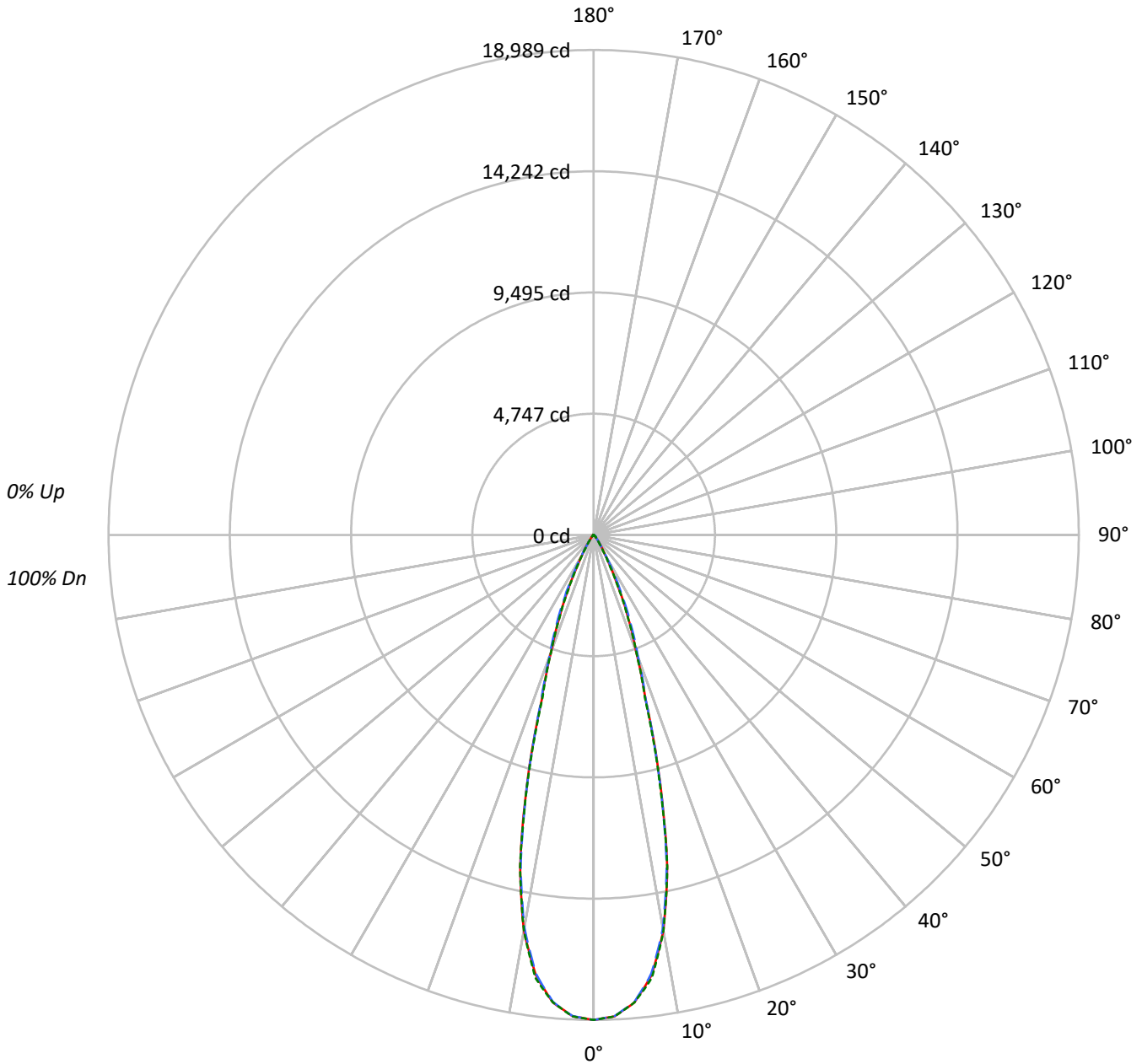
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1453498	1453498	1453498
5°	1411773	1410121	1411842
10°	1222804	1214184	1222516
15°	797824	793537	789543
20°	396722	411604	396185
25°	199840	225355	195744
30°	80015	87183	69709
35°	37115	35545	29789
40°	16027	17796	15088
45°	11301	14029	11409
50°	3882	10217	4108
55°	2242	4230	2362
60°	1577	1852	1577
65°	1014	1014	1014
70°	627	425	627
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 14029 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1669.8	28.3
10°-20°	2689.2	45.5
20°-30°	1162.1	19.7
30°-40°	264.9	4.5
40°-50°	90.9	1.5
50°-60°	22.2	0.4
60°-70°	5.8	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°	5521.2	93.5
0°-40°	5786.0	98.0
0°-60°	5899.2	99.9
0°-90°	5905.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5905.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18989	18989	18989	18989	18989	
5°	18374	18356	18352	18391	18375	1671
15°	10068	9947	10014	9981	9964	2696
25°	2366	2456	2668	2393	2318	1133
35°	397	406	380	378	319	269
45°	104	130	130	130	105	74
55°	17	18	32	19	18	16
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°	18989.2	18989.2	18989.2	18989.2	18989.2
2.5°	18863.3	18850.3	18857.7	18867.0	18870.8
5°	18373.9	18356.1	18352.4	18390.6	18374.8
7.5°	17386.5	17361.4	17323.1	17409.9	17491.0
10°	15732.6	15704.7	15621.7	15662.7	15728.9
12.5°	13290.9	13200.5	13198.6	13329.2	13311.4
15°	10068.0	9946.8	10013.9	9981.3	9963.5
17.5°	6770.4	6723.8	6813.3	6786.2	6669.7
20°	4870.4	4882.5	5053.1	4967.3	4863.8
22.5°	3553.9	3597.8	3800.1	3579.1	3498.0
25°	2366.2	2455.7	2668.3	2393.2	2317.7
27.5°	1455.3	1496.3	1711.7	1436.7	1395.7
30°	905.3	884.8	986.4	846.5	788.7
32.5°	593.9	567.8	600.4	538.9	492.3
35°	397.2	405.6	380.4	377.6	318.8
37.5°	248.0	285.3	251.7	268.5	205.1
40°	160.4	207.0	178.1	196.7	151.0
42.5°	131.5	159.4	146.4	155.7	134.3
45°	104.4	129.6	129.6	129.6	105.4
47.5°	57.8	86.7	110.9	88.6	61.5
50°	32.6	43.8	85.8	45.7	34.5
52.5°	22.4	25.2	58.7	26.1	23.3
55°	16.8	17.7	31.7	18.6	17.7
57.5°	13.1	14.0	16.8	14.0	13.1
60°	10.3	10.3	12.1	11.2	10.3
62.5°	7.5	7.5	8.4	7.5	7.5
65°	5.6	5.6	5.6	5.6	5.6
67.5°	2.8	3.7	3.7	3.7	3.7
70°	2.8	1.9	1.9	1.9	2.8
72.5°	1.9	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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