

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: P749913

Luminaire Tested: LD4D55D010-EU4DR3055659035-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749913
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-EU4DR3055659035-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5967.8 lumens
Efficiency: N/A
Efficacy: 102.5 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

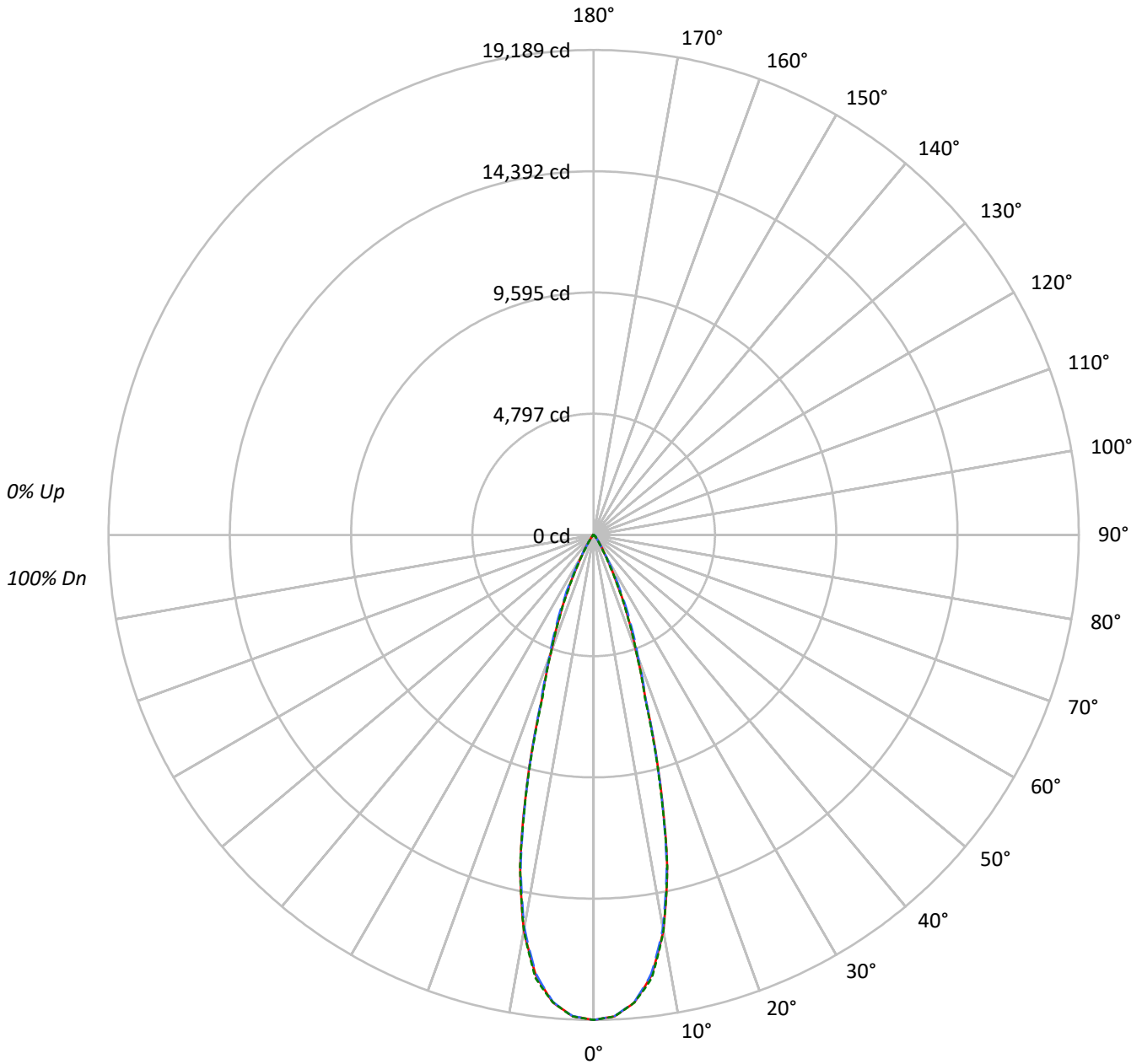
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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																			
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°	1468807	1468807	1468807
5°	1426641	1424973	1426710
10°	1235690	1226970	1235395
15°	806224	801897	797864
20°	400901	415938	400363
25°	201943	227728	197805
30°	80854	88102	70443
35°	37498	35919	30107
40°	16187	17976	15248
45°	11420	14181	11528
50°	3930	10324	4156
55°	2269	4270	2389
60°	1592	1868	1592
65°	1032	1032	1032
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: 14181 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1687.4	28.3
10°-20°	2717.6	45.5
20°-30°	1174.3	19.7
30°-40°	267.7	4.5
40°-50°	91.9	1.5
50°-60°	22.5	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°	5579.3	93.5
0°-40°	5847.0	98.0
0°-60°	5961.3	99.9
0°-90°	5967.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5967.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19189	19189	19189	19189	19189	
5°	18567	18550	18546	18584	18568	1689
15°	10174	10052	10119	10086	10068	2724
25°	2391	2482	2696	2418	2342	1145
35°	401	410	384	382	322	272
45°	106	131	131	131	106	75
55°	17	18	32	19	18	17
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°	19189.2	19189.2	19189.2	19189.2	19189.2
2.5°	19062.0	19048.8	19056.4	19065.8	19069.5
5°	18567.4	18549.5	18545.7	18584.3	18568.3
7.5°	17569.7	17544.2	17505.6	17593.2	17675.2
10°	15898.4	15870.1	15786.2	15827.7	15894.6
12.5°	13430.9	13339.5	13337.7	13469.6	13451.7
15°	10174.0	10051.5	10119.4	10086.4	10068.5
17.5°	6841.7	6794.6	6885.0	6857.7	6740.0
20°	4921.7	4933.9	5106.3	5019.6	4915.1
22.5°	3591.4	3635.7	3840.1	3616.8	3534.9
25°	2391.1	2481.6	2696.4	2418.4	2342.1
27.5°	1470.7	1512.1	1729.7	1451.8	1410.4
30°	914.8	894.1	996.8	855.4	797.0
32.5°	600.1	573.8	606.7	544.5	497.4
35°	401.3	409.8	384.4	381.6	322.2
37.5°	250.6	288.3	254.4	271.3	207.3
40°	162.0	209.2	179.9	198.8	152.6
42.5°	132.8	161.1	147.9	157.3	135.7
45°	105.5	131.0	131.0	131.0	106.5
47.5°	58.4	87.6	112.1	89.5	62.2
50°	33.0	44.3	86.7	46.2	34.9
52.5°	22.6	25.4	59.4	26.4	23.6
55°	17.0	17.9	32.0	18.8	17.9
57.5°	13.2	14.1	17.0	14.1	13.2
60°	10.4	10.4	12.2	11.3	10.4
62.5°	7.5	7.5	8.5	7.5	7.5
65°	5.7	5.7	5.7	5.7	5.7
67.5°	2.8	3.8	3.8	3.8	3.8
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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