

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P749887

Luminaire Tested: LD4D55D010-EU4DR3055659027-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749887
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-EU4DR3055659027-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 5732.3 lumens
Efficiency: N/A
Efficacy: 98.5 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

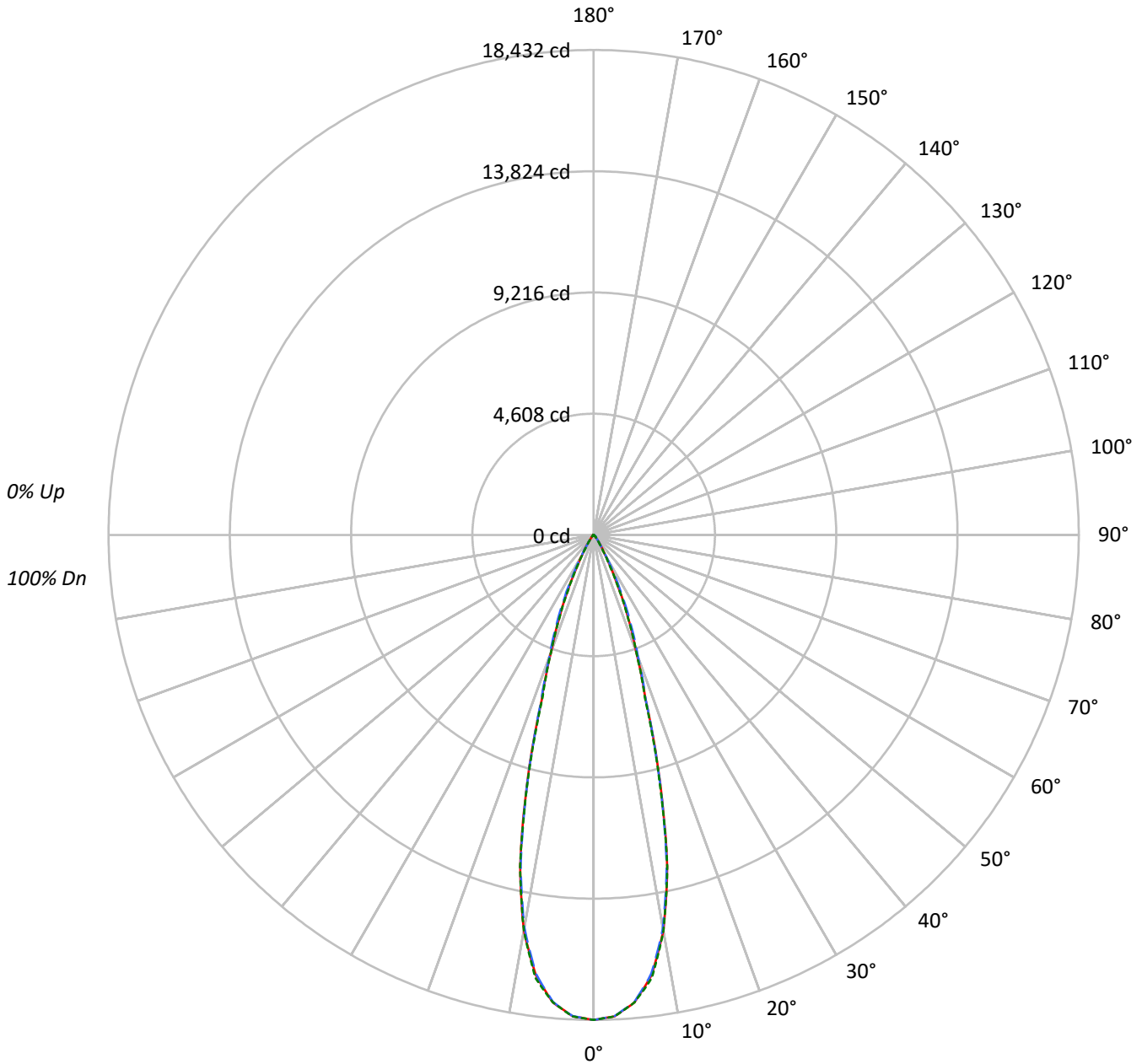
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	1410863	1410863	1410863
5°	1370358	1368760	1370428
10°	1186934	1178571	1186654
15°	774416	770255	766388
20°	385082	399532	384569
25°	193979	218742	190001
30°	77664	84620	67667
35°	36022	34499	28920
40°	15558	17266	14648
45°	10976	13618	11074
50°	3775	9919	3989
55°	2175	4110	2295
60°	1531	1806	1531
65°	978	978	978
70°	604	403	604
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 13618 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1620.8	28.3
10°-20°	2610.4	45.5
20°-30°	1128.0	19.7
30°-40°	257.1	4.5
40°-50°	88.3	1.5
50°-60°	21.6	0.4
60°-70°	5.6	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°	5359.2	93.5
0°-40°	5616.3	98.0
0°-60°	5726.1	99.9
0°-90°	5732.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5732.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18432	18432	18432	18432	18432	
5°	17835	17818	17814	17851	17836	1622
15°	9773	9655	9720	9688	9671	2617
25°	2297	2384	2590	2323	2250	1099
35°	386	394	369	366	310	261
45°	101	126	126	126	102	72
55°	16	17	31	18	17	16
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°	18432.2	18432.2	18432.2	18432.2	18432.2
2.5°	18310.0	18297.3	18304.6	18313.6	18317.2
5°	17834.9	17817.7	17814.1	17851.2	17835.8
7.5°	16876.5	16852.1	16815.0	16899.2	16977.9
10°	15271.1	15244.0	15163.5	15203.3	15267.5
12.5°	12901.1	12813.3	12811.5	12938.2	12921.0
15°	9772.6	9655.0	9720.1	9688.5	9671.3
17.5°	6571.8	6526.5	6613.4	6587.2	6474.1
20°	4727.5	4739.3	4904.9	4821.6	4721.2
22.5°	3449.7	3492.2	3688.6	3474.1	3395.4
25°	2296.8	2383.7	2590.0	2323.0	2249.7
27.5°	1412.6	1452.5	1661.5	1394.5	1354.7
30°	878.7	858.8	957.4	821.7	765.6
32.5°	576.5	551.1	582.8	523.1	477.8
35°	385.5	393.7	369.2	366.5	309.5
37.5°	240.7	276.9	244.3	260.6	199.1
40°	155.7	200.9	172.8	190.9	146.6
42.5°	127.6	154.7	142.1	151.1	130.3
45°	101.4	125.8	125.8	125.8	102.3
47.5°	56.1	84.2	107.7	86.0	59.7
50°	31.7	42.5	83.3	44.3	33.5
52.5°	21.7	24.4	57.0	25.3	22.6
55°	16.3	17.2	30.8	18.1	17.2
57.5°	12.7	13.6	16.3	13.6	12.7
60°	10.0	10.0	11.8	10.9	10.0
62.5°	7.2	7.2	8.1	7.2	7.2
65°	5.4	5.4	5.4	5.4	5.4
67.5°	2.7	3.6	3.6	3.6	3.6
70°	2.7	1.8	1.8	1.8	2.7
72.5°	1.8	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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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