

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: P755398

Luminaire Tested: LD4D90BD010-EU4DR3070959050-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755398
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: LD4D90BD010-EU4DR3070959050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9412.3 lumens
Efficiency: N/A
Efficacy: 95.2 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

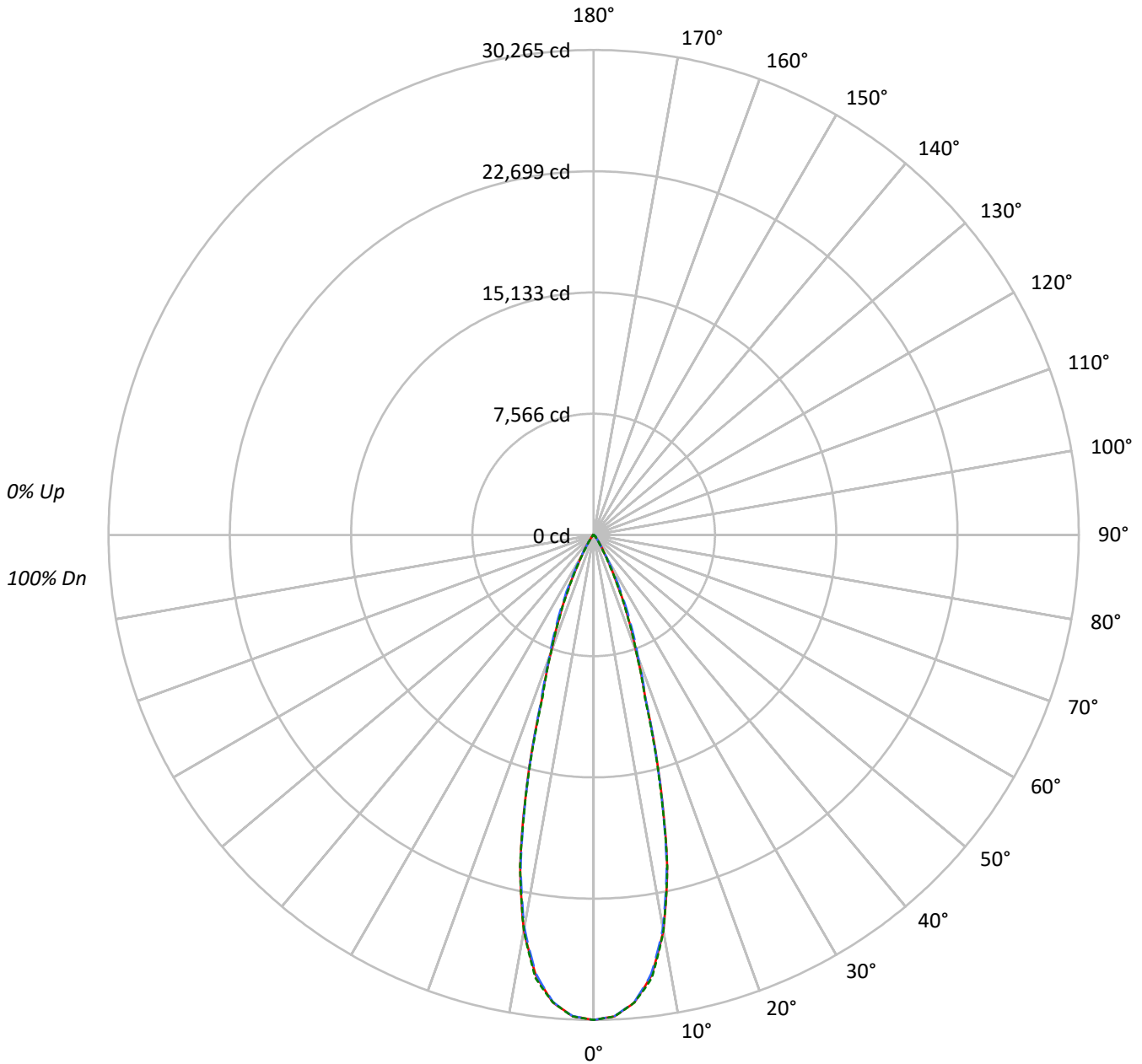
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	2316594	2316594	2316594
5°	2250090	2247462	2250205
10°	1948919	1935177	1948452
15°	1271574	1264743	1258388
20°	632292	656012	631445
25°	318502	359167	311982
30°	127521	138950	111108
35°	59149	56654	47487
40°	25540	28357	24051
45°	18013	22353	18175
50°	6192	16278	6549
55°	3563	6739	3763
60°	2495	2955	2495
65°	1612	1612	1612
70°	1007	671	1007
75°	0	444	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 22353 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2661.4	28.3
10°-20°	4286.1	45.5
20°-30°	1852.1	19.7
30°-40°	422.1	4.5
40°-50°	144.9	1.5
50°-60°	35.4	0.4
60°-70°	9.2	0.1
70°-80°	1.0	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°	8799.6	93.5
0°-40°	9221.8	98.0
0°-60°	9402.1	99.9
0°-90°	9412.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9412.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30265	30265	30265	30265	30265	
5°	29284	29256	29250	29311	29286	2664
15°	16046	15853	15960	15908	15880	4297
25°	3771	3914	4253	3814	3694	1805
35°	633	646	606	602	508	429
45°	166	206	206	206	168	118
55°	27	28	50	30	28	26
65°	9	9	9	9	9	9
75°	0	0	2	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°	30265.1	30265.1	30265.1	30265.1	30265.1
2.5°	30064.5	30043.7	30055.6	30070.4	30076.4
5°	29284.4	29256.1	29250.2	29311.1	29285.9
7.5°	27710.8	27670.7	27609.7	27747.9	27877.2
10°	25074.8	25030.2	24898.0	24963.3	25068.8
12.5°	21183.2	21039.0	21036.1	21244.1	21215.9
15°	16046.4	15853.2	15960.2	15908.2	15880.0
17.5°	10790.7	10716.4	10859.1	10816.0	10630.2
20°	7762.4	7781.7	8053.6	7916.9	7752.0
22.5°	5664.3	5734.1	6056.6	5704.4	5575.1
25°	3771.2	3913.9	4252.7	3814.3	3694.0
27.5°	2319.5	2384.9	2728.1	2289.8	2224.4
30°	1442.8	1410.1	1572.1	1349.2	1257.1
32.5°	946.5	904.9	956.9	858.9	784.6
35°	633.0	646.4	606.3	601.8	508.2
37.5°	395.3	454.7	401.2	427.9	326.9
40°	255.6	329.9	283.8	313.5	240.7
42.5°	209.5	254.1	233.3	248.1	214.0
45°	166.4	206.5	206.5	206.5	167.9
47.5°	92.1	138.2	176.8	141.2	98.1
50°	52.0	69.8	136.7	72.8	55.0
52.5°	35.7	40.1	93.6	41.6	37.1
55°	26.7	28.2	50.5	29.7	28.2
57.5°	20.8	22.3	26.7	22.3	20.8
60°	16.3	16.3	19.3	17.8	16.3
62.5°	11.9	11.9	13.4	11.9	11.9
65°	8.9	8.9	8.9	8.9	8.9
67.5°	4.5	5.9	5.9	5.9	5.9
70°	4.5	3.0	3.0	3.0	4.5
72.5°	3.0	1.5	1.5	1.5	1.5
75°	0.0	0.0	1.5	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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