

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: P754619

Luminaire Tested: LD4D85BD010-EU4DR3070959050-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754619
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: LD4D85BD010-EU4DR3070959050-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 9315.9 lumens
Efficiency: N/A
Efficacy: 106.2 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

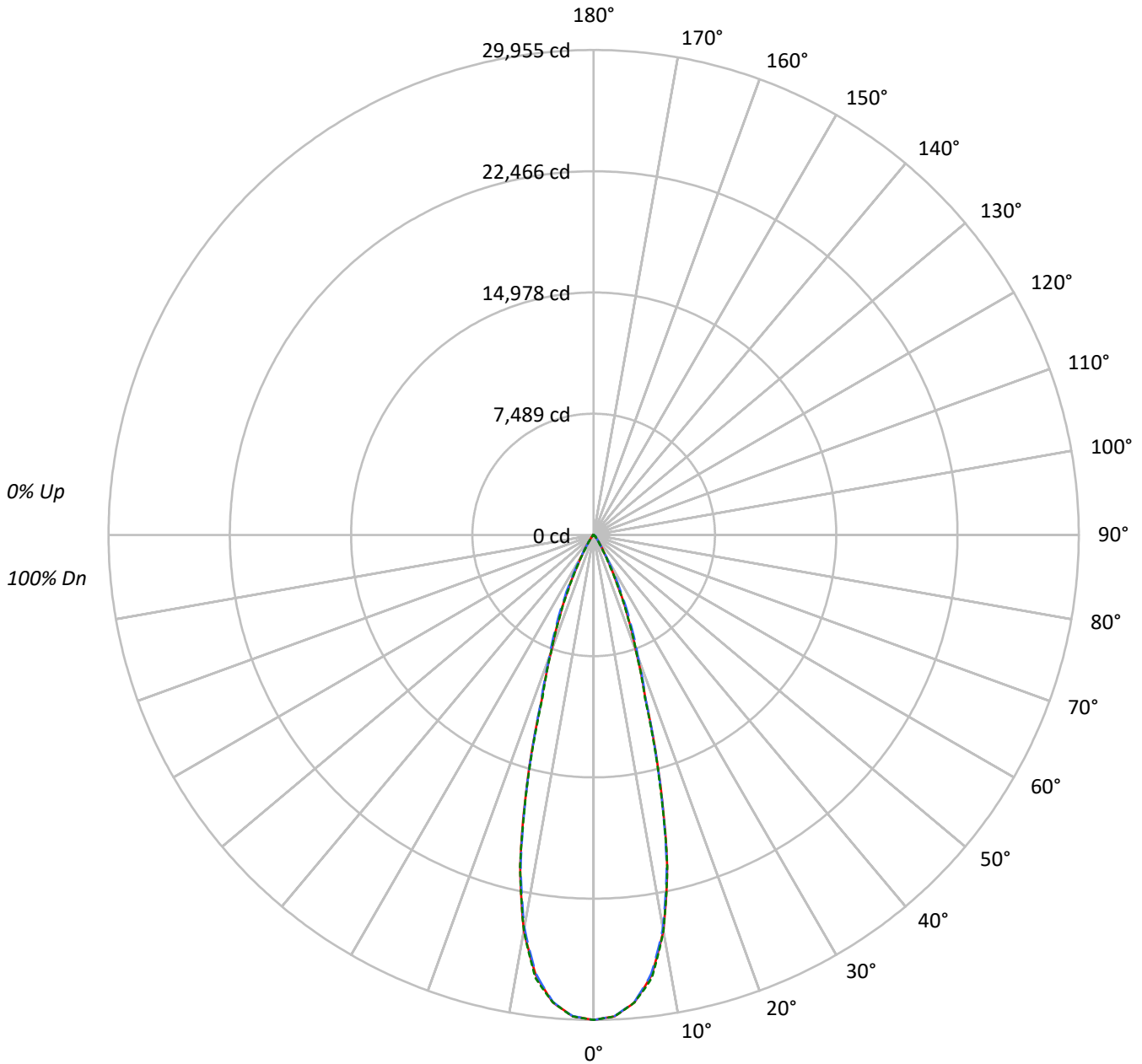
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	2292873	2292873	2292873
5°	2227047	2224450	2227162
10°	1928959	1915357	1928508
15°	1258554	1251795	1245503
20°	625817	649300	624978
25°	315242	355485	308789
30°	126213	137527	109968
35°	58542	56065	47001
40°	25280	28068	23811
45°	17829	22126	17991
50°	6133	16112	6478
55°	3536	6672	3723
60°	2480	2924	2480
65°	1594	1594	1594
70°	985	649	985
75°	0	444	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 22126 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2634.1	28.3
10°-20°	4242.3	45.5
20°-30°	1833.2	19.7
30°-40°	417.8	4.5
40°-50°	143.5	1.5
50°-60°	35.0	0.4
60°-70°	9.1	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°	8709.5	93.5
0°-40°	9127.4	98.0
0°-60°	9305.9	99.9
0°-90°	9315.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9315.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29955	29955	29955	29955	29955	
5°	28984	28957	28951	29011	28986	2636
15°	15882	15691	15797	15745	15717	4253
25°	3733	3874	4209	3775	3656	1787
35°	626	640	600	596	503	425
45°	165	204	204	204	166	117
55°	26	28	50	29	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°	29955.2	29955.2	29955.2	29955.2	29955.2
2.5°	29756.6	29736.1	29747.8	29762.5	29768.4
5°	28984.5	28956.6	28950.7	29011.0	28986.0
7.5°	27427.1	27387.3	27327.0	27463.8	27591.8
10°	24818.0	24773.9	24643.0	24707.7	24812.2
12.5°	20966.3	20823.6	20820.7	21026.6	20998.6
15°	15882.1	15690.9	15796.8	15745.3	15717.4
17.5°	10680.2	10606.7	10747.9	10705.2	10521.4
20°	7682.9	7702.0	7971.2	7835.9	7672.6
22.5°	5606.3	5675.4	5994.6	5646.0	5518.1
25°	3732.6	3873.8	4209.1	3775.3	3656.2
27.5°	2295.8	2360.5	2700.2	2266.3	2201.6
30°	1428.0	1395.7	1556.0	1335.4	1244.2
32.5°	936.8	895.7	947.1	850.1	776.5
35°	626.5	639.8	600.0	595.6	503.0
37.5°	391.2	450.0	397.1	423.6	323.6
40°	253.0	326.5	280.9	310.3	238.3
42.5°	207.4	251.5	230.9	245.6	211.8
45°	164.7	204.4	204.4	204.4	166.2
47.5°	91.2	136.8	175.0	139.7	97.1
50°	51.5	69.1	135.3	72.1	54.4
52.5°	35.3	39.7	92.7	41.2	36.8
55°	26.5	27.9	50.0	29.4	27.9
57.5°	20.6	22.1	26.5	22.1	20.6
60°	16.2	16.2	19.1	17.6	16.2
62.5°	11.8	11.8	13.2	11.8	11.8
65°	8.8	8.8	8.8	8.8	8.8
67.5°	4.4	5.9	5.9	5.9	5.9
70°	4.4	2.9	2.9	2.9	4.4
72.5°	2.9	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

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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