

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: P754551

Luminaire Tested: LD4D85BD010-EU4DR3070959024-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754551
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-EU4DR3070959024-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6047.7 lumens
Efficiency: N/A
Efficacy: 69.0 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

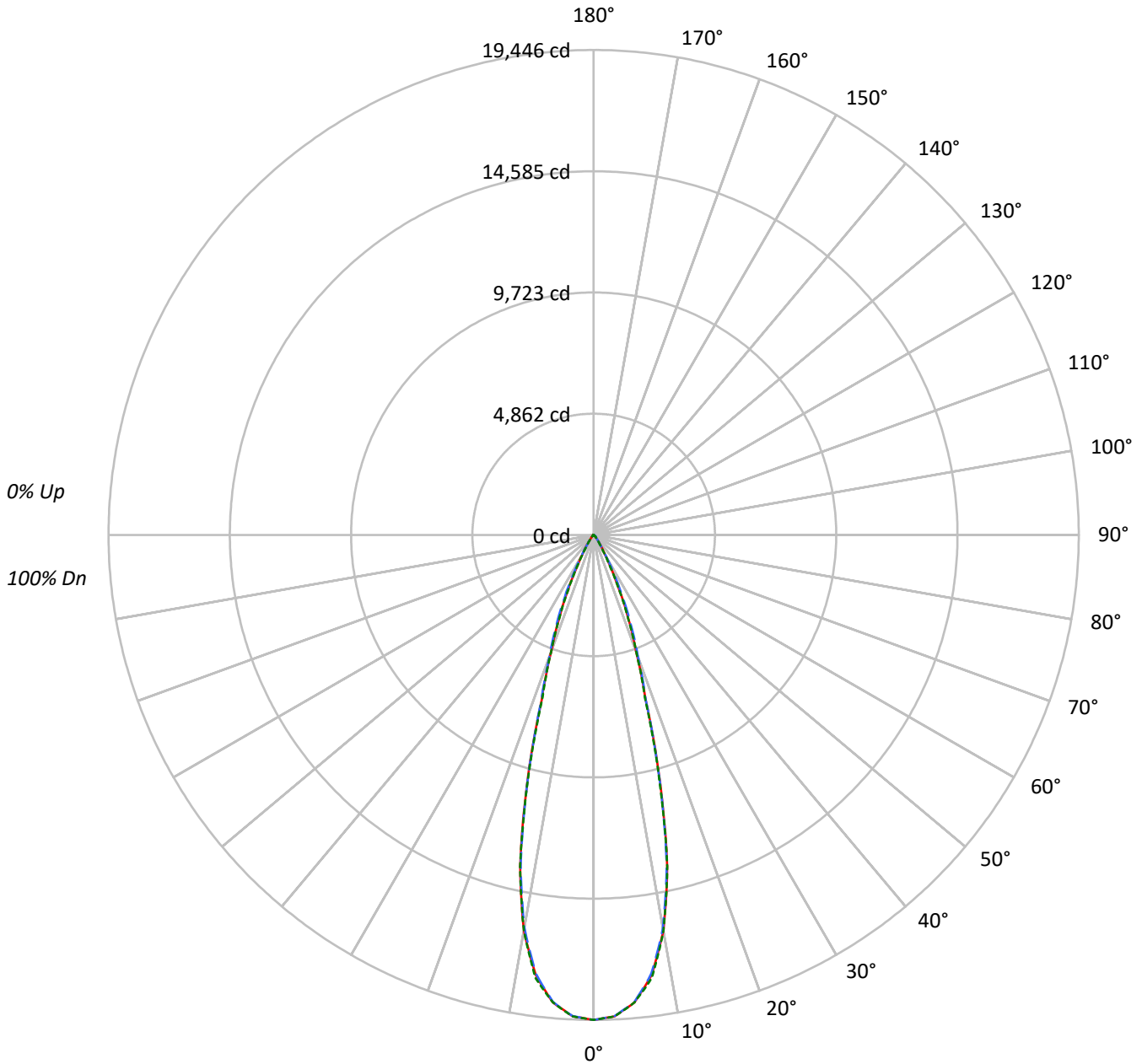
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1488486	1488486	1488486
5°	1445757	1444067	1445827
10°	1252246	1243416	1251950
15°	817025	812643	808554
20°	406269	421509	405723
25°	204654	230777	200457
30°	81941	89277	71388
35°	38003	36396	30509
40°	16407	18225	15458
45°	11572	14365	11680
50°	3977	10455	4204
55°	2295	4337	2415
60°	1607	1898	1607
65°	1032	1032	1032
70°	649	425	649
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 14365 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1710.0	28.3
10°-20°	2754.0	45.5
20°-30°	1190.1	19.7
30°-40°	271.2	4.5
40°-50°	93.1	1.5
50°-60°	22.7	0.4
60°-70°	5.9	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°	5654.1	93.5
0°-40°	5925.3	98.0
0°-60°	6041.2	99.9
0°-90°	6047.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6047.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19446	19446	19446	19446	19446	
5°	18816	18798	18794	18833	18817	1711
15°	10310	10186	10255	10222	10203	2761
25°	2423	2515	2732	2451	2374	1160
35°	407	415	390	387	326	276
45°	107	133	133	133	108	76
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°	19446.3	19446.3	19446.3	19446.3	19446.3
2.5°	19317.4	19304.1	19311.7	19321.3	19325.1
5°	18816.2	18798.1	18794.2	18833.4	18817.1
7.5°	17805.1	17779.3	17740.2	17829.0	17912.0
10°	16111.4	16082.7	15997.8	16039.8	16107.6
12.5°	13610.9	13518.3	13516.4	13650.0	13631.9
15°	10310.3	10186.2	10255.0	10221.5	10203.4
17.5°	6933.4	6885.6	6977.3	6949.6	6830.3
20°	4987.6	5000.0	5174.7	5086.9	4980.9
22.5°	3639.5	3684.4	3891.6	3665.3	3582.2
25°	2423.2	2514.8	2732.5	2450.8	2373.5
27.5°	1490.4	1532.4	1752.9	1471.3	1429.3
30°	927.1	906.1	1010.1	866.9	807.7
32.5°	608.2	581.4	614.9	551.8	504.1
35°	406.7	415.3	389.5	386.7	326.5
37.5°	254.0	292.2	257.8	275.0	210.0
40°	164.2	212.0	182.4	201.5	154.7
42.5°	134.6	163.3	149.9	159.4	137.5
45°	106.9	132.7	132.7	132.7	107.9
47.5°	59.2	88.8	113.6	90.7	63.0
50°	33.4	44.9	87.8	46.8	35.3
52.5°	22.9	25.8	60.1	26.7	23.9
55°	17.2	18.1	32.5	19.1	18.1
57.5°	13.4	14.3	17.2	14.3	13.4
60°	10.5	10.5	12.4	11.5	10.5
62.5°	7.6	7.6	8.6	7.6	7.6
65°	5.7	5.7	5.7	5.7	5.7
67.5°	2.9	3.8	3.8	3.8	3.8
70°	2.9	1.9	1.9	1.9	2.9
72.5°	1.9	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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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