

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: P754577

Luminaire Tested: LD4D85BD010-EU4DR3070959030-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754577
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-EU4DR3070959030-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7057.8 lumens
Efficiency: N/A
Efficacy: 80.5 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

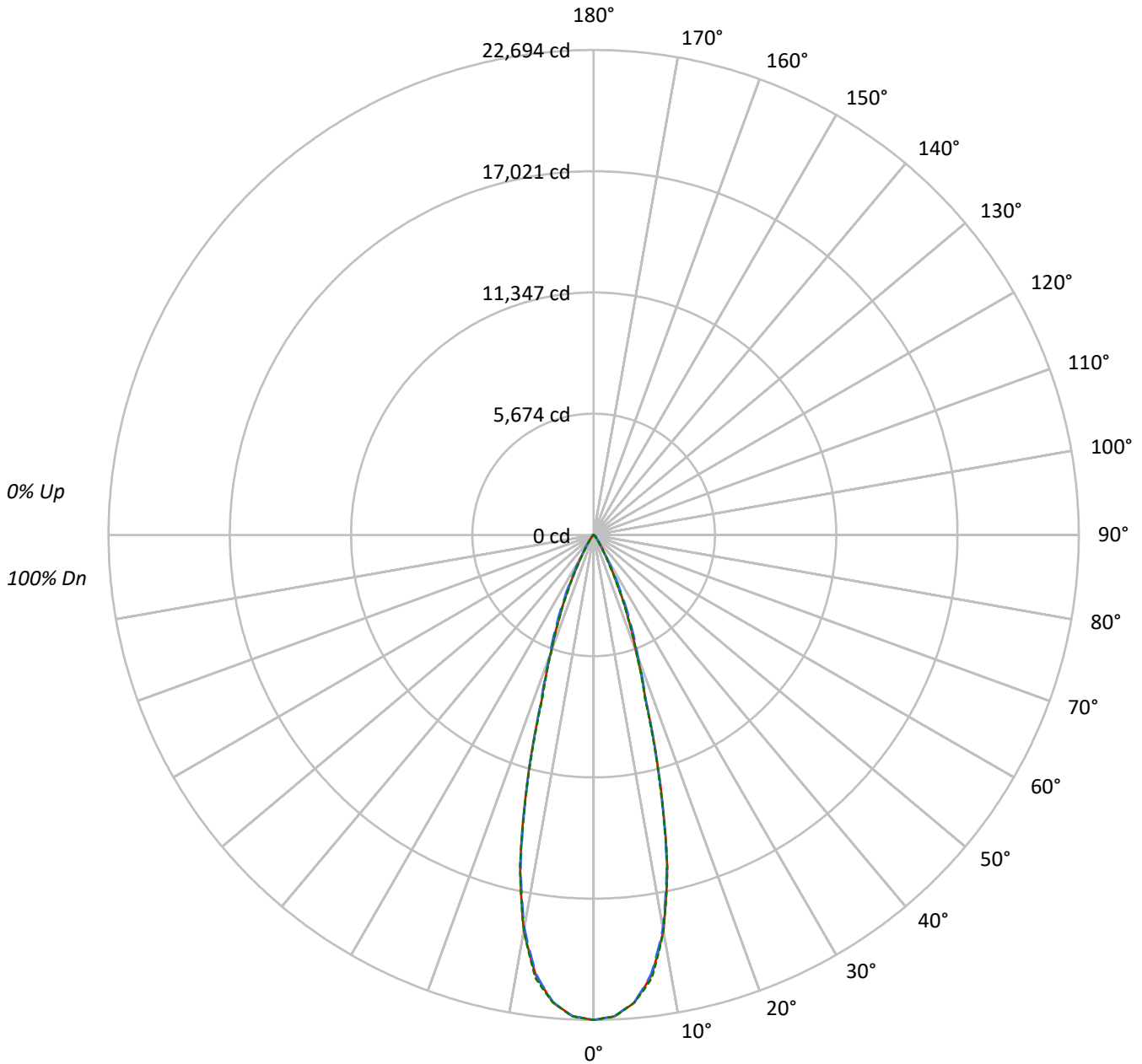
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1737083	1737083	1737083
5°	1687214	1685247	1687298
10°	1461386	1451080	1461036
15°	953482	948363	943593
20°	474122	491911	473486
25°	238826	269323	233935
30°	95623	104188	83311
35°	44357	42479	35611
40°	19145	21263	18036
45°	13509	16768	13629
50°	4644	12206	4906
55°	2682	5058	2829
60°	1883	2220	1883
65°	1213	1213	1213
70°	739	492	739
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 16768 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1995.6	28.3
10°-20°	3213.9	45.5
20°-30°	1388.8	19.7
30°-40°	316.5	4.5
40°-50°	108.7	1.5
50°-60°	26.6	0.4
60°-70°	6.9	0.1
70°-80°	0.7	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°	6598.4	93.5
0°-40°	6914.9	98.0
0°-60°	7050.2	99.9
0°-90°	7057.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7057.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22694	22694	22694	22694	22694	
5°	21959	21938	21933	21979	21960	1997
15°	12032	11887	11968	11929	11908	3222
25°	2828	2935	3189	2860	2770	1354
35°	475	485	455	451	381	322
45°	125	155	155	155	126	89
55°	20	21	38	22	21	20
65°	7	7	7	7	7	7
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°	22694.1	22694.1	22694.1	22694.1	22694.1
2.5°	22543.7	22528.1	22537.0	22548.1	22552.6
5°	21958.7	21937.6	21933.1	21978.8	21959.8
7.5°	20778.8	20748.7	20703.0	20806.6	20903.6
10°	18802.2	18768.8	18669.6	18718.6	18797.7
12.5°	15884.1	15776.0	15773.8	15929.8	15908.6
15°	12032.3	11887.4	11967.7	11928.7	11907.5
17.5°	8091.3	8035.6	8142.6	8110.3	7971.0
20°	5820.6	5835.1	6039.0	5936.5	5812.8
22.5°	4247.3	4299.7	4541.5	4277.4	4180.5
25°	2827.8	2934.8	3188.9	2860.2	2769.9
27.5°	1739.3	1788.3	2045.7	1717.0	1668.0
30°	1081.9	1057.4	1178.8	1011.7	942.6
32.5°	709.7	678.6	717.5	644.0	588.3
35°	474.7	484.7	454.6	451.3	381.1
37.5°	296.4	340.9	300.8	320.9	245.1
40°	191.6	247.4	212.8	235.1	180.5
42.5°	157.1	190.5	174.9	186.1	160.4
45°	124.8	154.9	154.9	154.9	125.9
47.5°	69.1	103.6	132.6	105.8	73.5
50°	39.0	52.4	102.5	54.6	41.2
52.5°	26.7	30.1	70.2	31.2	27.9
55°	20.1	21.2	37.9	22.3	21.2
57.5°	15.6	16.7	20.1	16.7	15.6
60°	12.3	12.3	14.5	13.4	12.3
62.5°	8.9	8.9	10.0	8.9	8.9
65°	6.7	6.7	6.7	6.7	6.7
67.5°	3.3	4.5	4.5	4.5	4.5
70°	3.3	2.2	2.2	2.2	3.3
72.5°	2.2	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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