

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: P754589

Luminaire Tested: LD4D85BD010-EU4DR3070959035-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754589
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-EU4DR3070959035-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8394.9 lumens
Efficiency: N/A
Efficacy: 95.7 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

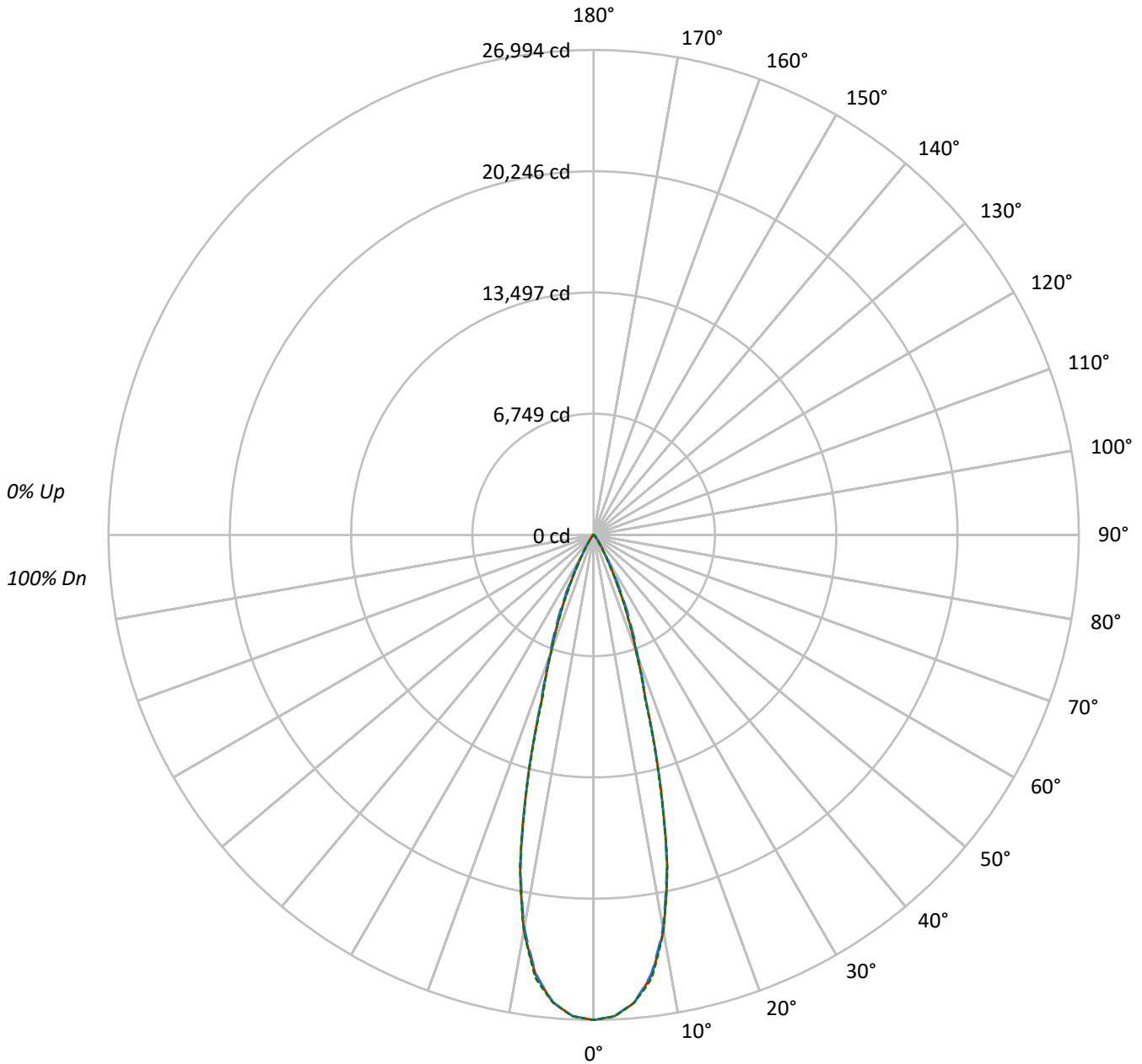
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	2066182	2066182	2066182
5°	2006866	2004523	2006966
10°	1738247	1725990	1737835
15°	1134126	1128032	1122358
20°	563943	585105	563193
25°	284077	320343	278258
30°	113742	123933	99097
35°	52757	50524	42357
40°	22782	25290	21453
45°	16064	19939	16216
50°	5525	14516	5835
55°	3189	6019	3363
60°	2235	2633	2235
65°	1449	1449	1449
70°	895	604	895
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 19939 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2373.7	28.3
10°-20°	3822.8	45.5
20°-30°	1651.9	19.7
30°-40°	376.5	4.5
40°-50°	129.3	1.5
50°-60°	31.6	0.4
60°-70°	8.2	0.1
70°-80°	0.9	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°	7848.5	93.5
0°-40°	8225.0	98.0
0°-60°	8385.8	99.9
0°-90°	8394.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8394.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26994	26994	26994	26994	26994	
5°	26119	26094	26088	26143	26120	2376
15°	14312	14140	14235	14189	14163	3832
25°	3364	3491	3793	3402	3295	1610
35°	565	576	541	537	453	383
45°	148	184	184	184	150	105
55°	24	25	45	26	25	23
65°	8	8	8	8	8	8
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°	26993.6	26993.6	26993.6	26993.6	26993.6
2.5°	26814.7	26796.1	26806.7	26820.0	26825.3
5°	26118.9	26093.7	26088.4	26142.8	26120.2
7.5°	24715.4	24679.6	24625.3	24748.5	24863.8
10°	22364.3	22324.6	22206.6	22264.9	22359.0
12.5°	18893.4	18764.8	18762.2	18947.7	18922.6
15°	14311.9	14139.6	14235.0	14188.6	14163.4
17.5°	9624.3	9558.0	9685.3	9646.8	9481.2
20°	6923.3	6940.6	7183.1	7061.2	6914.1
22.5°	5052.0	5114.3	5401.9	5087.8	4972.5
25°	3363.6	3490.8	3793.0	3402.0	3294.7
27.5°	2068.8	2127.1	2433.2	2042.3	1984.0
30°	1286.9	1257.7	1402.2	1203.4	1121.2
32.5°	844.2	807.1	853.5	766.0	699.8
35°	564.6	576.5	540.7	536.7	453.3
37.5°	352.5	405.5	357.8	381.7	291.6
40°	228.0	294.2	253.1	279.6	214.7
42.5°	186.9	226.6	208.1	221.3	190.8
45°	148.4	184.2	184.2	184.2	149.8
47.5°	82.2	123.3	157.7	125.9	87.5
50°	46.4	62.3	121.9	64.9	49.0
52.5°	31.8	35.8	83.5	37.1	33.1
55°	23.9	25.2	45.1	26.5	25.2
57.5°	18.6	19.9	23.9	19.9	18.6
60°	14.6	14.6	17.2	15.9	14.6
62.5°	10.6	10.6	11.9	10.6	10.6
65°	8.0	8.0	8.0	8.0	8.0
67.5°	4.0	5.3	5.3	5.3	5.3
70°	4.0	2.7	2.7	2.7	4.0
72.5°	2.7	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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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