

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: P754605

Luminaire Tested: LD4D85BD010-EU4DR3070959040-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754605
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-EU4DR3070959040-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8809.4 lumens
Efficiency: N/A
Efficacy: 100.4 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

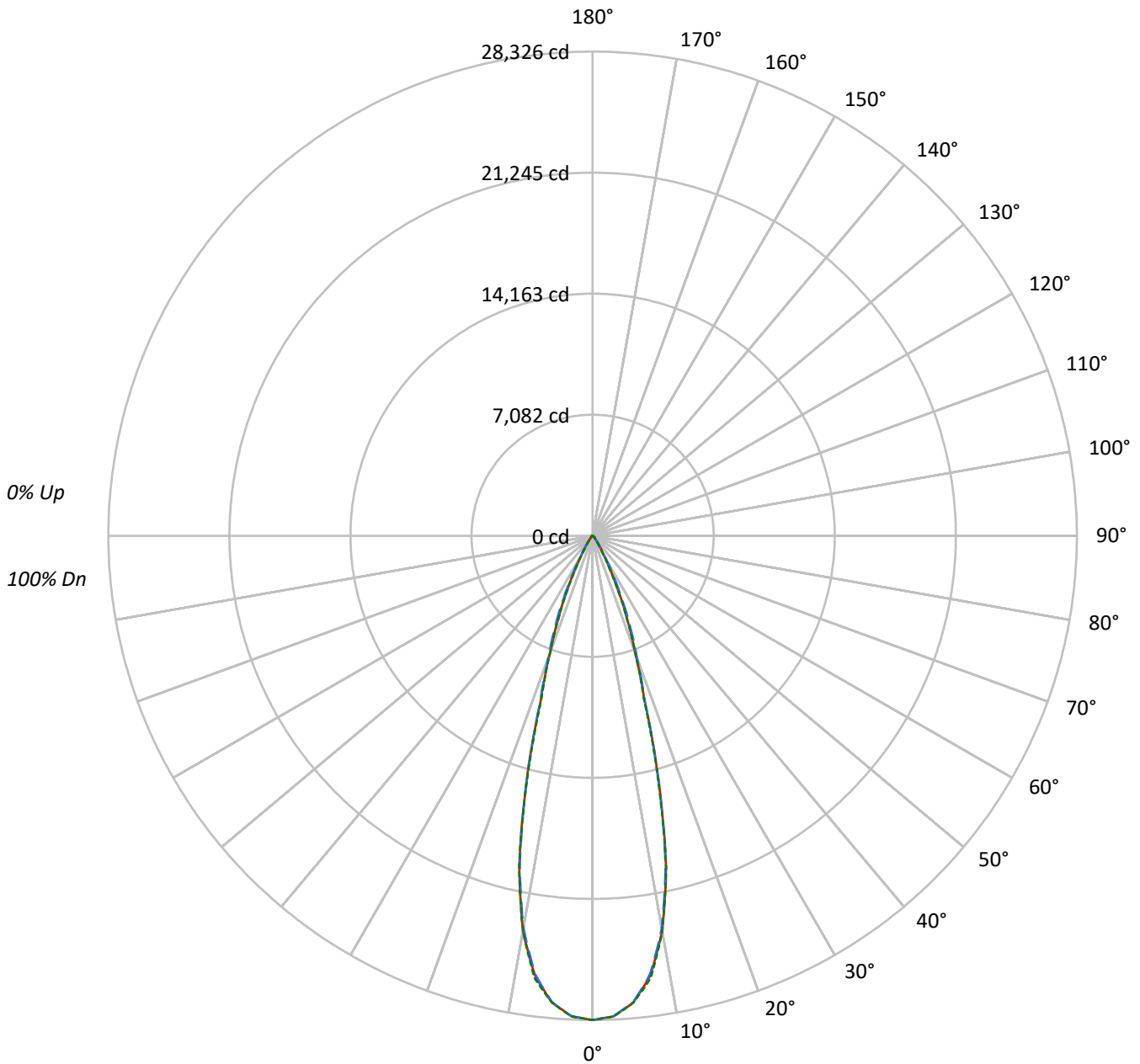


Downlight

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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	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°	2168199	2168199	2168199
5°	2105953	2103495	2106061
10°	1824078	1811215	1823643
15°	1190119	1183724	1177773
20°	591793	613997	590994
25°	298105	336161	291999
30°	119355	130049	103993
35°	55365	53019	44441
40°	23901	26539	22512
45°	16865	20924	17017
50°	5799	15230	6133
55°	3336	6312	3523
60°	2342	2771	2342
65°	1503	1503	1503
70°	940	627	940
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 20924 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2490.9	28.3
10°-20°	4011.6	45.5
20°-30°	1733.5	19.7
30°-40°	395.1	4.5
40°-50°	135.7	1.5
50°-60°	33.1	0.4
60°-70°	8.6	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°	8236.0	93.5
0°-40°	8631.1	98.0
0°-60°	8799.9	99.9
0°-90°	8809.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8809.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28326	28326	28326	28326	28326	
5°	27408	27382	27376	27434	27410	2493
15°	15018	14838	14938	14889	14863	4021
25°	3530	3663	3980	3570	3457	1690
35°	592	605	567	563	476	402
45°	156	193	193	193	157	111
55°	25	26	47	28	26	24
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°	28326.4	28326.4	28326.4	28326.4	28326.4
2.5°	28138.7	28119.2	28130.3	28144.2	28149.8
5°	27408.5	27382.1	27376.5	27433.6	27409.9
7.5°	25935.8	25898.2	25841.2	25970.5	26091.5
10°	23468.6	23426.9	23303.1	23364.3	23463.0
12.5°	19826.3	19691.4	19688.6	19883.3	19856.9
15°	15018.5	14837.7	14937.8	14889.2	14862.7
17.5°	10099.5	10030.0	10163.5	10123.1	9949.3
20°	7265.2	7283.3	7537.8	7409.8	7255.4
22.5°	5301.5	5366.8	5668.6	5339.0	5218.0
25°	3529.7	3663.2	3980.3	3570.0	3457.4
27.5°	2170.9	2232.1	2553.4	2143.1	2081.9
30°	1350.4	1319.8	1471.4	1262.8	1176.6
32.5°	885.9	847.0	895.6	803.8	734.3
35°	592.5	605.0	567.4	563.2	475.6
37.5°	369.9	425.6	375.5	400.5	306.0
40°	239.2	308.7	265.6	293.4	225.3
42.5°	196.1	237.8	218.3	232.3	200.3
45°	155.8	193.3	193.3	193.3	157.2
47.5°	86.2	129.3	165.5	132.1	91.8
50°	48.7	65.4	127.9	68.1	51.5
52.5°	33.4	37.5	87.6	38.9	34.8
55°	25.0	26.4	47.3	27.8	26.4
57.5°	19.5	20.9	25.0	20.9	19.5
60°	15.3	15.3	18.1	16.7	15.3
62.5°	11.1	11.1	12.5	11.1	11.1
65°	8.3	8.3	8.3	8.3	8.3
67.5°	4.2	5.6	5.6	5.6	5.6
70°	4.2	2.8	2.8	2.8	4.2
72.5°	2.8	1.4	1.4	1.4	1.4
75°	0.0	0.0	1.4	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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