

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: P756153

Luminaire Tested: LD4D95BD010-EU4DR3070959035-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756153
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: LD4D95BD010-EU4DR3070959035-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 9601.9 lumens
Efficiency: N/A
Efficacy: 96.8 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): 99.2
Input Voltage (V): NR
Input Current (Ain): 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

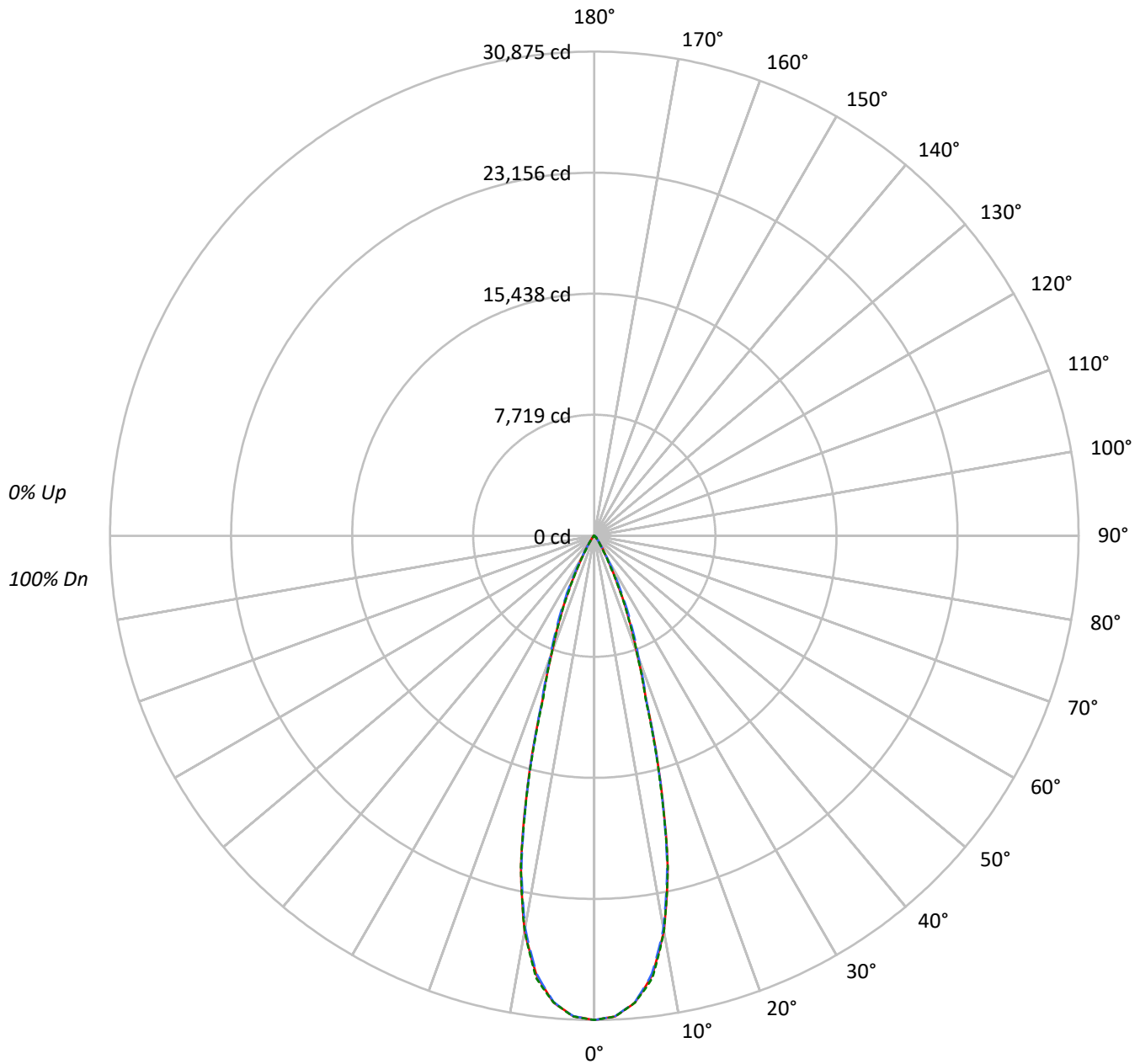


Downlight

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	2363270	2363270	2363270
5°	2295430	2292749	2295546
10°	1988185	1974171	1987719
15°	1297193	1290228	1283738
20°	645032	669233	644169
25°	324920	366405	318265
30°	130093	141751	113345
35°	60345	57794	48440
40°	26049	28927	24540
45°	18381	22808	18543
50°	6323	16612	6680
55°	3643	6873	3843
60°	2557	3016	2557
65°	1648	1648	1648
70°	1007	671	1007
75°	0	444	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 22808 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2715.0	28.3
10°-20°	4372.5	45.5
20°-30°	1889.5	19.7
30°-40°	430.7	4.5
40°-50°	147.9	1.5
50°-60°	36.1	0.4
60°-70°	9.4	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°	8977.0	93.5
0°-40°	9407.6	98.0
0°-60°	9591.6	99.9
0°-90°	9601.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9601.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30875	30875	30875	30875	30875	
5°	29874	29846	29840	29902	29876	2717
15°	16370	16173	16282	16229	16200	4383
25°	3847	3993	4338	3891	3768	1842
35°	646	659	618	614	518	438
45°	170	211	211	211	171	121
55°	27	29	52	30	29	27
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	30874.9	30874.9	30874.9	30874.9	30874.9
2.5°	30670.3	30649.1	30661.2	30676.4	30682.4
5°	29874.5	29845.7	29839.6	29901.7	29876.0
7.5°	28269.2	28228.2	28166.1	28307.1	28438.9
10°	25580.0	25534.6	25399.7	25466.4	25574.0
12.5°	21610.0	21463.0	21460.0	21672.2	21643.4
15°	16369.7	16172.7	16281.8	16228.7	16199.9
17.5°	11008.1	10932.3	11077.9	11033.9	10844.4
20°	7918.8	7938.5	8215.9	8076.5	7908.2
22.5°	5778.4	5849.7	6178.6	5819.4	5687.5
25°	3847.2	3992.8	4338.4	3891.2	3768.4
27.5°	2366.2	2432.9	2783.1	2335.9	2269.2
30°	1471.9	1438.5	1603.8	1376.4	1282.4
32.5°	965.6	923.2	976.2	876.2	800.4
35°	645.8	659.4	618.5	613.9	518.4
37.5°	403.2	463.9	409.3	436.6	333.5
40°	260.7	336.5	289.5	319.8	245.6
42.5°	213.7	259.2	238.0	253.1	218.3
45°	169.8	210.7	210.7	210.7	171.3
47.5°	94.0	141.0	180.4	144.0	100.0
50°	53.1	71.2	139.5	74.3	56.1
52.5°	36.4	40.9	95.5	42.4	37.9
55°	27.3	28.8	51.5	30.3	28.8
57.5°	21.2	22.7	27.3	22.7	21.2
60°	16.7	16.7	19.7	18.2	16.7
62.5°	12.1	12.1	13.6	12.1	12.1
65°	9.1	9.1	9.1	9.1	9.1
67.5°	4.5	6.1	6.1	6.1	6.1
70°	4.5	3.0	3.0	3.0	4.5
72.5°	3.0	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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)