

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: P756125

Luminaire Tested: LD4D95BD010-EU4DR3070959027-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756125
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-EU4DR3070959027-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8235.6 lumens
Efficiency: N/A
Efficacy: 83.0 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): 99.2
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

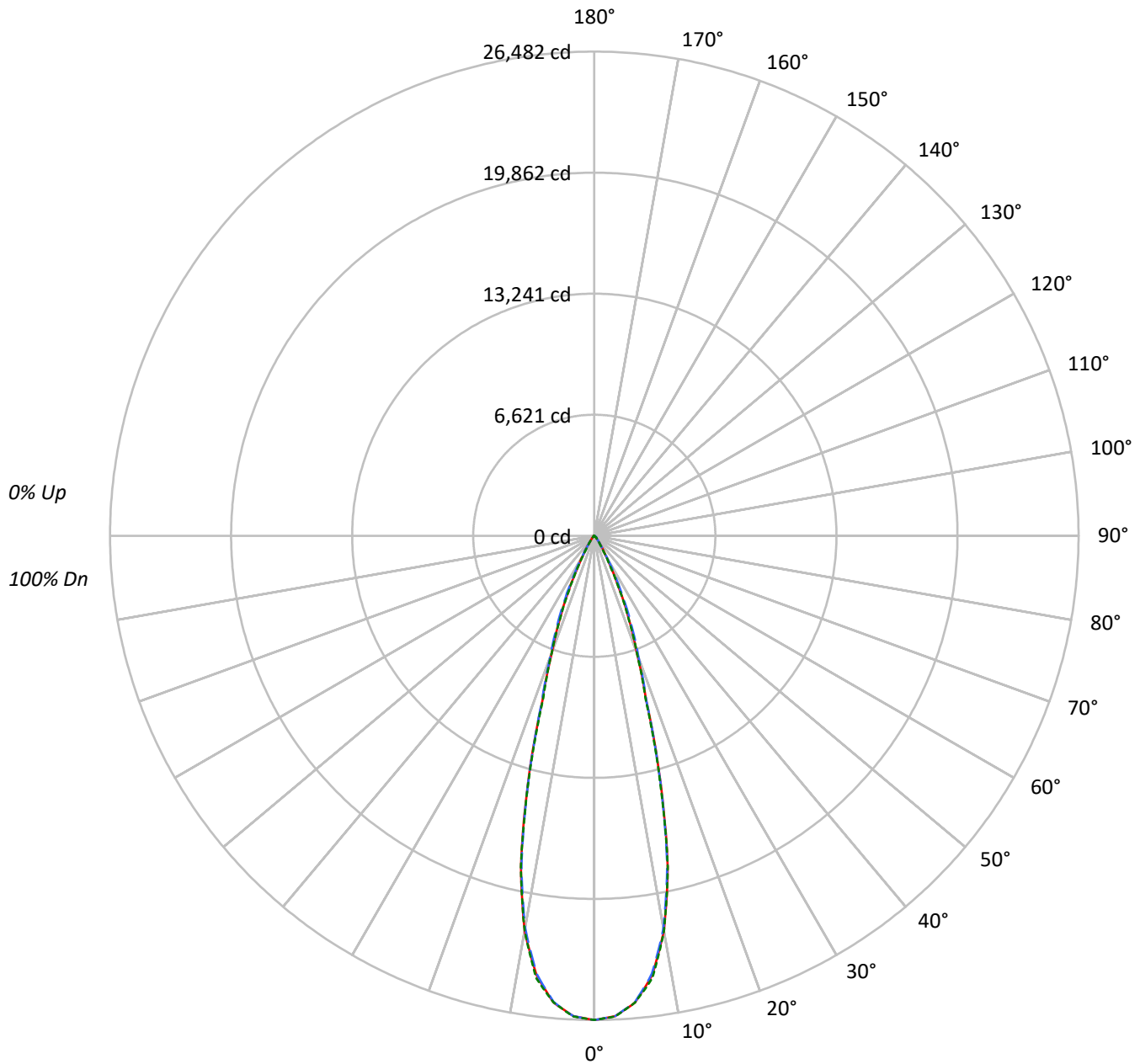


Downlight

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					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°	2026992	2026992	2026992
5°	1968802	1966504	1968901
10°	1705277	1693253	1704873
15°	1112611	1106636	1101073
20°	553248	574003	552506
25°	278689	314262	272980
30°	111586	121582	97214
35°	51758	49571	41554
40°	22342	24810	21043
45°	15761	19561	15902
50°	5418	14242	5728
55°	3123	5898	3296
60°	2189	2587	2189
65°	1413	1413	1413
70°	873	582	873
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 19561 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2328.7	28.3
10°-20°	3750.3	45.5
20°-30°	1620.6	19.7
30°-40°	369.4	4.5
40°-50°	126.8	1.5
50°-60°	31.0	0.4
60°-70°	8.0	0.1
70°-80°	0.8	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°	7699.6	93.5
0°-40°	8068.9	98.0
0°-60°	8226.7	99.9
0°-90°	8235.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8235.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26482	26482	26482	26482	26482	
5°	25624	25599	25594	25647	25625	2331
15°	14040	13871	13965	13920	13895	3759
25°	3300	3425	3721	3338	3232	1580
35°	554	566	530	527	445	376
45°	146	181	181	181	147	103
55°	23	25	44	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	26481.6	26481.6	26481.6	26481.6	26481.6
2.5°	26306.1	26287.9	26298.3	26311.3	26316.5
5°	25623.5	25598.8	25593.6	25646.9	25624.8
7.5°	24246.6	24211.5	24158.2	24279.1	24392.2
10°	21940.1	21901.1	21785.4	21842.6	21934.9
12.5°	18535.0	18408.9	18406.3	18588.3	18563.6
15°	14040.4	13871.4	13965.0	13919.5	13894.8
17.5°	9441.7	9376.7	9501.5	9463.8	9301.3
20°	6792.0	6808.9	7046.8	6927.2	6782.9
22.5°	4956.2	5017.3	5299.4	4991.3	4878.2
25°	3299.8	3424.6	3721.0	3337.5	3232.2
27.5°	2029.5	2086.8	2387.1	2003.5	1946.3
30°	1262.5	1233.8	1375.6	1180.5	1099.9
32.5°	828.2	791.8	837.3	751.5	686.5
35°	553.9	565.6	530.5	526.6	444.7
37.5°	345.8	397.8	351.0	374.4	286.0
40°	223.6	288.6	248.3	274.3	210.6
42.5°	183.3	222.3	204.1	217.1	187.2
45°	145.6	180.7	180.7	180.7	146.9
47.5°	80.6	120.9	154.7	123.5	85.8
50°	45.5	61.1	119.6	63.7	48.1
52.5°	31.2	35.1	81.9	36.4	32.5
55°	23.4	24.7	44.2	26.0	24.7
57.5°	18.2	19.5	23.4	19.5	18.2
60°	14.3	14.3	16.9	15.6	14.3
62.5°	10.4	10.4	11.7	10.4	10.4
65°	7.8	7.8	7.8	7.8	7.8
67.5°	3.9	5.2	5.2	5.2	5.2
70°	3.9	2.6	2.6	2.6	3.9
72.5°	2.6	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



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)