

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: P756166

Luminaire Tested: LD4D95BD010-EU4DR3070959040-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756166
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-EU4DR3070959040-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 10050.9 lumens
Efficiency: N/A
Efficacy: 101.3 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

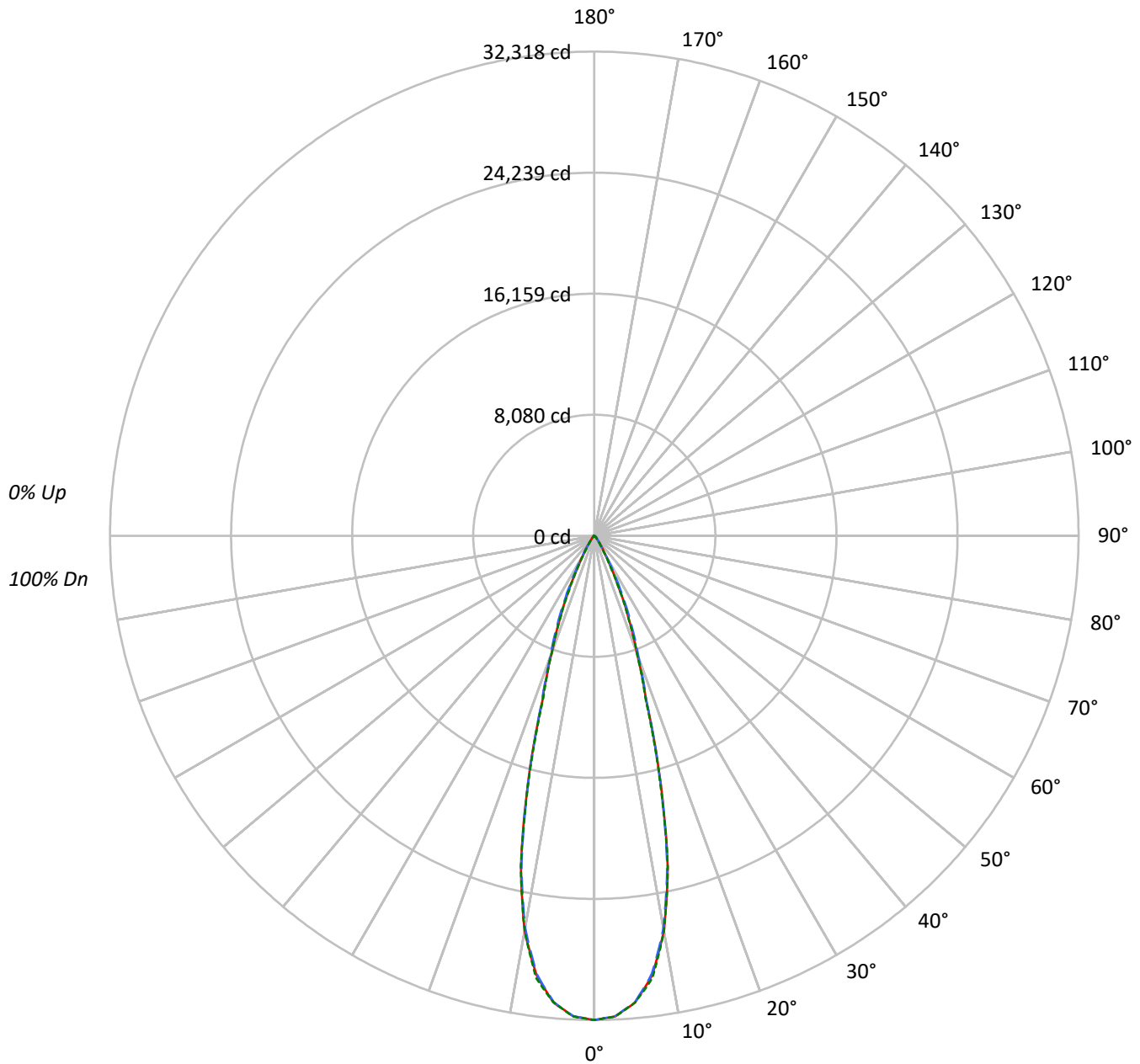


Downlight

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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°	2473760	2473760	2473760
5°	2402747	2399943	2402862
10°	2081143	2066461	2080646
15°	1357838	1350548	1343757
20°	675187	700520	674283
25°	340114	383533	333146
30°	136174	148380	118648
35°	63158	60495	50711
40°	27268	30286	25680
45°	19236	23880	19409
50°	6609	17386	6990
55°	3817	7193	4017
60°	2679	3154	2679
65°	1721	1721	1721
70°	1074	716	1074
75°	0	473	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 23880 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2841.9	28.3
10°-20°	4576.9	45.5
20°-30°	1977.8	19.7
30°-40°	450.8	4.5
40°-50°	154.8	1.5
50°-60°	37.8	0.4
60°-70°	9.8	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°	9396.7	93.5
0°-40°	9847.4	98.0
0°-60°	10040.0	99.9
0°-90°	10050.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10050.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	32318	32318	32318	32318	32318	
5°	31271	31241	31235	31300	31273	2844
15°	17135	16929	17043	16988	16957	4588
25°	4027	4179	4541	4073	3945	1928
35°	676	690	647	643	543	458
45°	178	221	221	221	179	126
55°	29	30	54	32	30	28
65°	10	10	10	10	10	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°	32318.4	32318.4	32318.4	32318.4	32318.4
2.5°	32104.2	32082.0	32094.7	32110.5	32116.9
5°	31271.2	31241.0	31234.7	31299.7	31272.7
7.5°	29590.8	29548.0	29482.9	29630.5	29768.5
10°	26776.0	26728.4	26587.1	26657.0	26769.6
12.5°	22620.3	22466.4	22463.2	22685.4	22655.2
15°	17135.0	16928.8	17043.0	16987.5	16957.3
17.5°	11522.8	11443.5	11595.8	11549.8	11351.4
20°	8289.0	8309.7	8600.0	8454.1	8277.9
22.5°	6048.6	6123.2	6467.5	6091.4	5953.4
25°	4027.1	4179.4	4541.2	4073.1	3944.6
27.5°	2476.9	2546.7	2913.2	2445.1	2375.3
30°	1540.7	1505.8	1678.8	1440.7	1342.4
32.5°	1010.7	966.3	1021.9	917.1	837.8
35°	675.9	690.2	647.4	642.6	542.7
37.5°	422.1	485.5	428.4	457.0	349.1
40°	272.9	352.3	303.1	334.8	257.0
42.5°	223.7	271.3	249.1	265.0	228.5
45°	177.7	220.6	220.6	220.6	179.3
47.5°	98.4	147.6	188.8	150.7	104.7
50°	55.5	74.6	146.0	77.7	58.7
52.5°	38.1	42.8	100.0	44.4	39.7
55°	28.6	30.1	53.9	31.7	30.1
57.5°	22.2	23.8	28.6	23.8	22.2
60°	17.5	17.5	20.6	19.0	17.5
62.5°	12.7	12.7	14.3	12.7	12.7
65°	9.5	9.5	9.5	9.5	9.5
67.5°	4.8	6.3	6.3	6.3	6.3
70°	4.8	3.2	3.2	3.2	4.8
72.5°	3.2	1.6	1.6	1.6	1.6
75°	0.0	0.0	1.6	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)