

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: P756152

Luminaire Tested: LD4D95BD010-EU4DR3070959035-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756152
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-EU4DR3070959035-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-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: 9144.7 lumens
Efficiency: N/A
Efficacy: 92.2 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

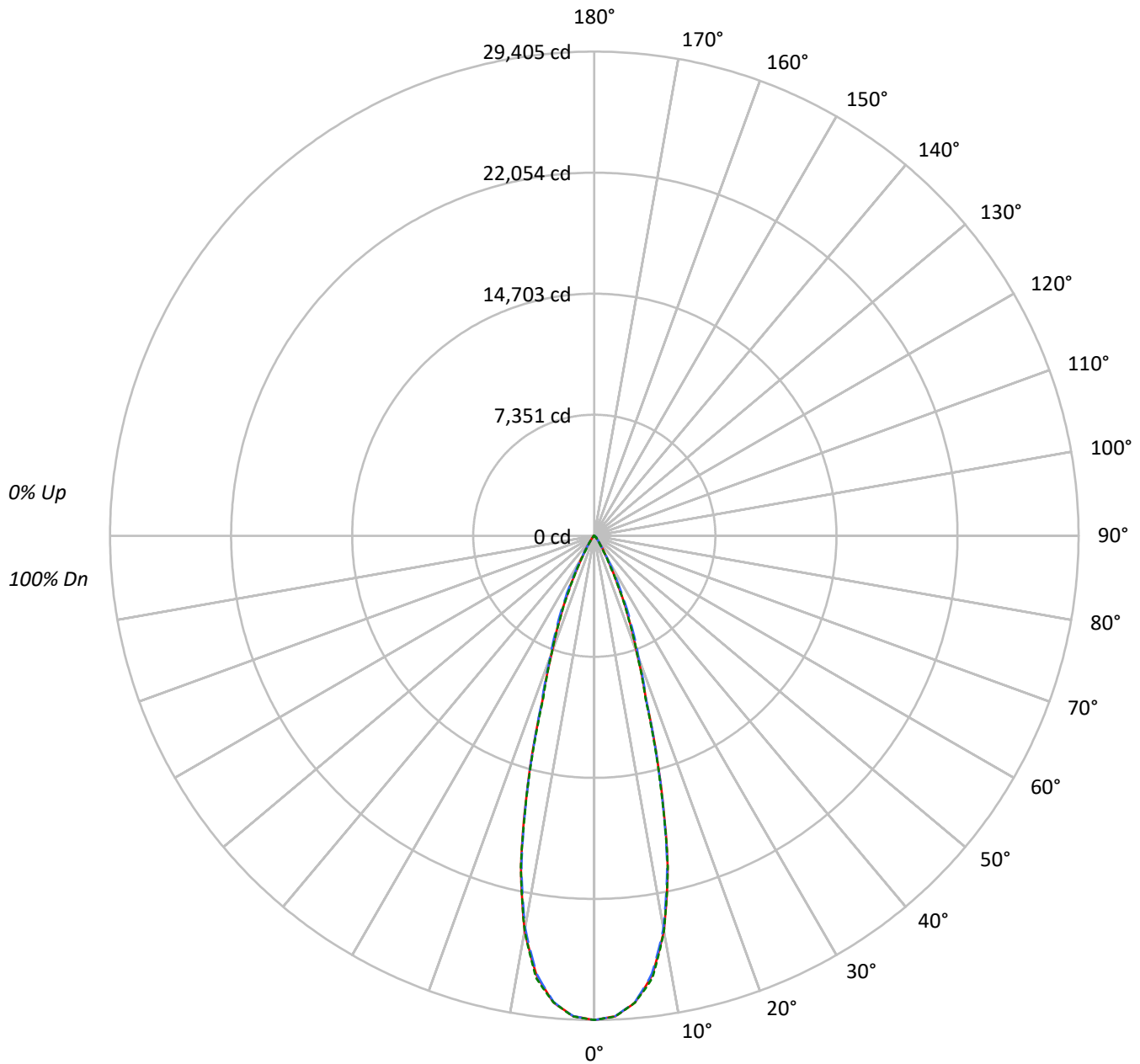


Downlight

TEST NUMBER: P756152

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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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	113	111	109	112	110	109	107	106	105	104		103	102	101		99
2	111	107	104	101	109	105	102	100	102	100	98		99	97	96		97
3	107	102	98	95	105	101	97	94	98	95	93		96	93	91		94
4	103	98	93	90	102	96	93	90	94	91	89		93	90	88		91
5	100	94	89	86	98	93	89	86	91	88	85		90	86	84		88
6	97	90	85	82	95	89	85	82	88	84	81		87	83	81		85
7	94	87	82	79	92	86	82	79	85	81	78		84	81	78		83
8	91	84	79	76	90	83	79	76	82	78	76		81	78	75		80
9	88	81	76	73	87	80	76	73	80	76	73		79	75	73		78
10	85	78	74	71	85	78	74	71	77	73	71		76	73	71		76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2250736	2250736	2250736
5°	2186124	2183573	2186231
10°	1893509	1880164	1893066
15°	1235423	1228790	1222609
20°	614315	637367	613492
25°	309448	348957	303114
30°	123898	134999	107944
35°	57467	55037	46132
40°	24810	27548	23371
45°	17504	21726	17655
50°	6014	15814	6359
55°	3470	6552	3657
60°	2434	2878	2434
65°	1576	1576	1576
70°	962	649	962
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 21726 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2585.7	28.3
10°-20°	4164.3	45.5
20°-30°	1799.5	19.7
30°-40°	410.1	4.5
40°-50°	140.8	1.5
50°-60°	34.4	0.4
60°-70°	8.9	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°	8549.5	93.5
0°-40°	8959.6	98.0
0°-60°	9134.9	99.9
0°-90°	9144.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9144.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29405	29405	29405	29405	29405	
5°	28452	28424	28419	28478	28453	2588
15°	15590	15402	15506	15456	15428	4174
25°	3664	3803	4132	3706	3589	1754
35°	615	628	589	585	494	417
45°	162	201	201	201	163	115
55°	26	27	49	29	27	25
65°	9	9	9	9	9	9
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°	29404.7	29404.7	29404.7	29404.7	29404.7
2.5°	29209.8	29189.6	29201.1	29215.6	29221.3
5°	28451.9	28424.4	28418.7	28477.9	28453.3
7.5°	26923.0	26884.0	26824.9	26959.1	27084.7
10°	24361.9	24318.6	24190.2	24253.7	24356.2
12.5°	20581.0	20440.9	20438.1	20640.2	20612.7
15°	15590.2	15402.5	15506.5	15455.9	15428.5
17.5°	10483.9	10411.8	10550.3	10508.5	10328.0
20°	7541.7	7560.5	7824.7	7691.9	7531.6
22.5°	5503.3	5571.1	5884.4	5542.3	5416.7
25°	3664.0	3802.6	4131.8	3705.9	3589.0
27.5°	2253.6	2317.1	2650.6	2224.7	2161.2
30°	1401.8	1370.0	1527.4	1310.9	1221.3
32.5°	919.6	879.2	929.7	834.4	762.3
35°	615.0	628.0	589.0	584.7	493.7
37.5°	384.0	441.8	389.8	415.8	317.6
40°	248.3	320.5	275.7	304.6	233.9
42.5°	203.6	246.9	226.7	241.1	207.9
45°	161.7	200.7	200.7	200.7	163.1
47.5°	89.5	134.3	171.8	137.1	95.3
50°	50.5	67.9	132.8	70.7	53.4
52.5°	34.6	39.0	91.0	40.4	36.1
55°	26.0	27.4	49.1	28.9	27.4
57.5°	20.2	21.7	26.0	21.7	20.2
60°	15.9	15.9	18.8	17.3	15.9
62.5°	11.5	11.5	13.0	11.5	11.5
65°	8.7	8.7	8.7	8.7	8.7
67.5°	4.3	5.8	5.8	5.8	5.8
70°	4.3	2.9	2.9	2.9	4.3
72.5°	2.9	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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)