

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: P756174

Luminaire Tested: LD4D95BD010-EU4DR3070959050-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756174
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-EU4DR3070959050-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9158.6 lumens
Efficiency: N/A
Efficacy: 92.3 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 (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

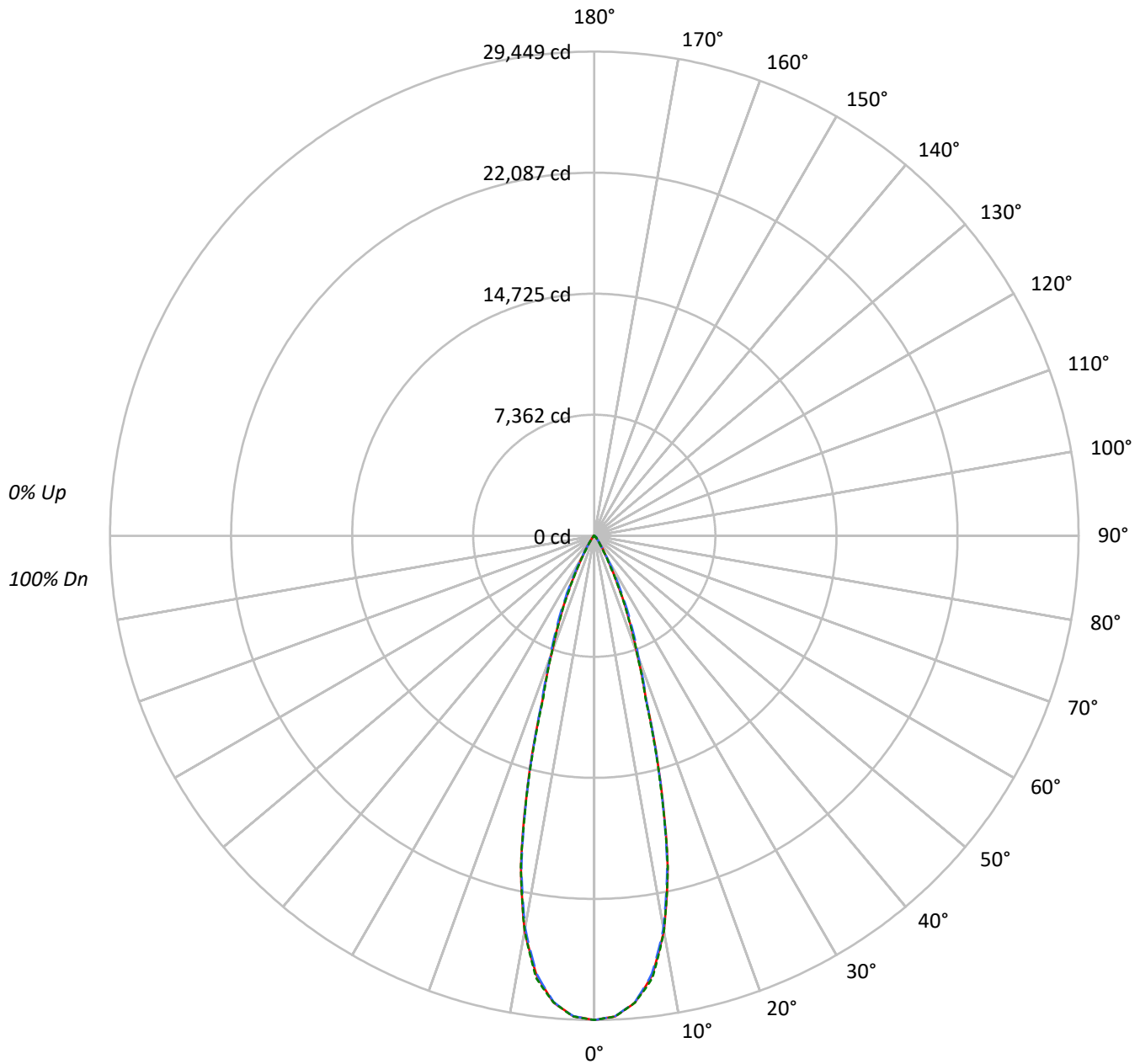


Downlight

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2254149	2254149	2254149
5°	2189436	2186885	2189551
10°	1896385	1883016	1895934
15°	1237301	1230652	1224463
20°	615252	638336	614429
25°	309921	349489	303570
30°	124083	135202	108112
35°	57551	55122	46207
40°	24850	27598	23401
45°	17525	21758	17688
50°	6025	15838	6371
55°	3470	6566	3670
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: 21758 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2589.6	28.3
10°-20°	4170.6	45.5
20°-30°	1802.2	19.7
30°-40°	410.8	4.5
40°-50°	141.0	1.5
50°-60°	34.5	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°	8562.5	93.5
0°-40°	8973.2	98.0
0°-60°	9148.7	99.9
0°-90°	9158.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9158.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29449	29449	29449	29449	29449	
5°	28495	28468	28462	28521	28496	2592
15°	15614	15426	15530	15479	15452	4181
25°	3670	3808	4138	3712	3594	1757
35°	616	629	590	586	494	418
45°	162	201	201	201	163	115
55°	26	28	49	29	28	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°	29449.3	29449.3	29449.3	29449.3	29449.3
2.5°	29254.1	29233.9	29245.4	29259.9	29265.7
5°	28495.0	28467.6	28461.8	28521.1	28496.5
7.5°	26963.9	26924.8	26865.6	27000.0	27125.8
10°	24398.9	24355.5	24226.9	24290.5	24393.1
12.5°	20612.2	20472.0	20469.1	20671.5	20644.0
15°	15613.9	15425.9	15530.0	15479.4	15451.9
17.5°	10499.8	10427.6	10566.4	10524.4	10343.7
20°	7553.2	7572.0	7836.6	7703.6	7543.1
22.5°	5511.6	5579.6	5893.3	5550.7	5424.9
25°	3669.6	3808.4	4138.1	3711.5	3594.4
27.5°	2257.0	2320.6	2654.6	2228.1	2164.5
30°	1403.9	1372.1	1529.7	1312.8	1223.2
32.5°	921.0	880.5	931.1	835.7	763.4
35°	615.9	628.9	589.9	585.6	494.5
37.5°	384.6	442.4	390.4	416.4	318.1
40°	248.7	321.0	276.2	305.1	234.2
42.5°	203.9	247.2	227.0	241.5	208.2
45°	161.9	201.0	201.0	201.0	163.4
47.5°	89.6	134.5	172.1	137.4	95.4
50°	50.6	68.0	133.0	70.8	53.5
52.5°	34.7	39.0	91.1	40.5	36.1
55°	26.0	27.5	49.2	28.9	27.5
57.5°	20.2	21.7	26.0	21.7	20.2
60°	15.9	15.9	18.8	17.4	15.9
62.5°	11.6	11.6	13.0	11.6	11.6
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)