

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: P756138

Luminaire Tested: LD4D95BD010-EU4DR3070959030-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756138
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-EU4DR3070959030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8484.5 lumens
Efficiency: N/A
Efficacy: 85.5 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

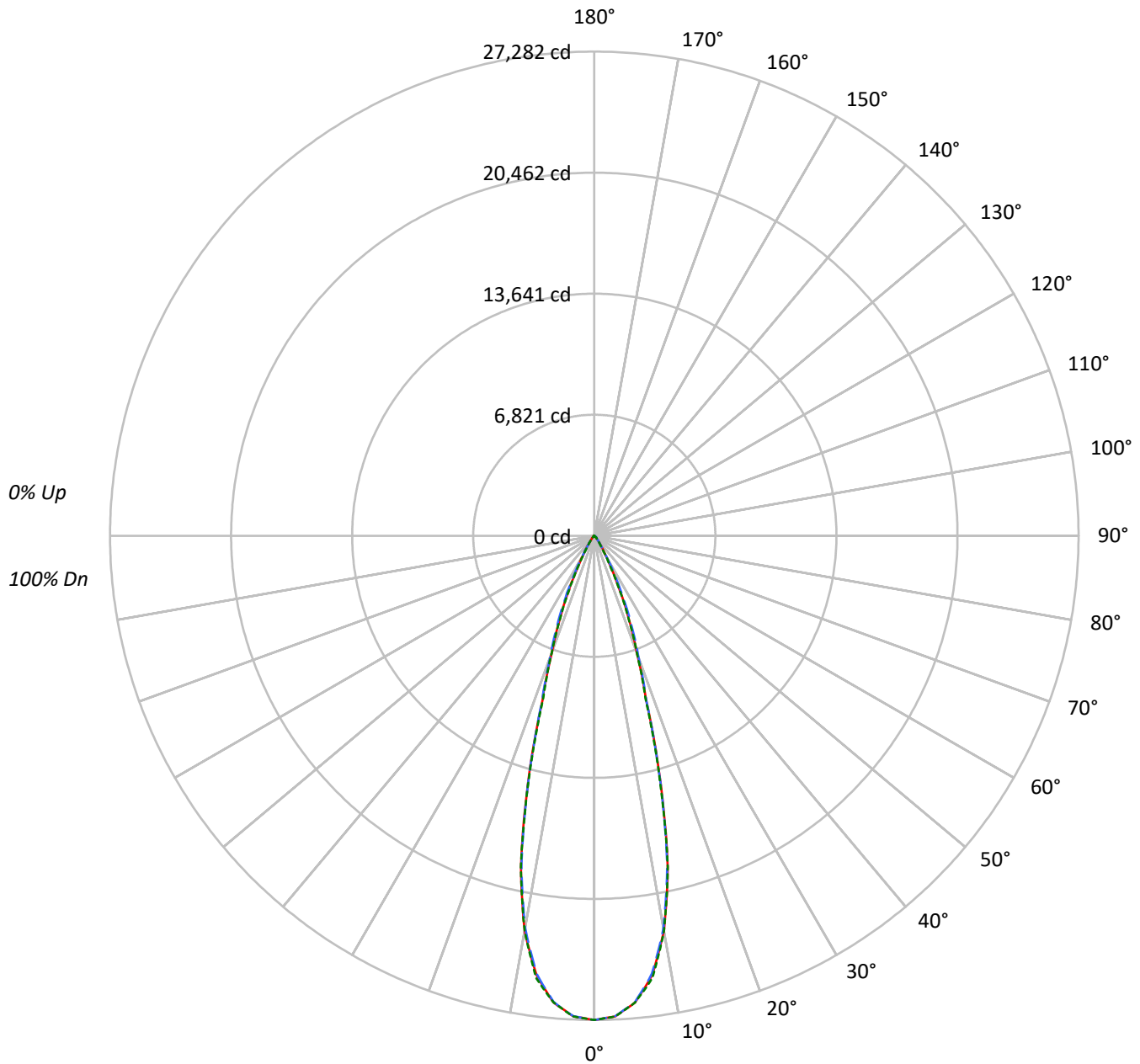


Downlight

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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°	2088249	2088249	2088249
5°	2028296	2025929	2028403
10°	1756816	1744426	1756396
15°	1146234	1140077	1134348
20°	569971	591353	569205
25°	287109	323763	281231
30°	114953	125250	100158
35°	53318	51066	42806
40°	23022	25560	21683
45°	16237	20156	16389
50°	5585	14671	5906
55°	3216	6072	3390
60°	2250	2664	2250
65°	1449	1449	1449
70°	895	604	895
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 20156 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2399.0	28.3
10°-20°	3863.7	45.5
20°-30°	1669.6	19.7
30°-40°	380.5	4.5
40°-50°	130.7	1.5
50°-60°	31.9	0.4
60°-70°	8.3	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°	7932.3	93.5
0°-40°	8312.8	98.0
0°-60°	8475.4	99.9
0°-90°	8484.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8484.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27282	27282	27282	27282	27282	
5°	26398	26372	26367	26422	26399	2401
15°	14465	14291	14387	14340	14315	3873
25°	3400	3528	3834	3438	3330	1627
35°	571	583	546	542	458	387
45°	150	186	186	186	151	106
55°	24	25	46	27	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°	27281.9	27281.9	27281.9	27281.9	27281.9
2.5°	27101.0	27082.3	27093.0	27106.4	27111.7
5°	26397.8	26372.4	26367.0	26421.9	26399.2
7.5°	24979.3	24943.2	24888.3	25012.8	25129.4
10°	22603.2	22563.0	22443.8	22502.7	22597.8
12.5°	19095.2	18965.2	18962.5	19150.1	19124.6
15°	14464.7	14290.6	14387.0	14340.1	14314.7
17.5°	9727.1	9660.1	9788.7	9749.8	9582.4
20°	6997.3	7014.7	7259.8	7136.6	6987.9
22.5°	5106.0	5168.9	5459.6	5142.1	5025.6
25°	3399.5	3528.1	3833.5	3438.4	3329.9
27.5°	2090.9	2149.8	2459.2	2064.1	2005.2
30°	1300.6	1271.1	1417.1	1216.2	1133.2
32.5°	853.2	815.7	862.6	774.2	707.2
35°	570.6	582.7	546.5	542.5	458.1
37.5°	356.3	409.9	361.7	385.8	294.7
40°	230.4	297.4	255.8	282.6	217.0
42.5°	188.9	229.0	210.3	223.7	192.9
45°	150.0	186.2	186.2	186.2	151.4
47.5°	83.0	124.6	159.4	127.2	88.4
50°	46.9	63.0	123.2	65.6	49.6
52.5°	32.1	36.2	84.4	37.5	33.5
55°	24.1	25.4	45.5	26.8	25.4
57.5°	18.8	20.1	24.1	20.1	18.8
60°	14.7	14.7	17.4	16.1	14.7
62.5°	10.7	10.7	12.1	10.7	10.7
65°	8.0	8.0	8.0	8.0	8.0
67.5°	4.0	5.4	5.4	5.4	5.4
70°	4.0	2.7	2.7	2.7	4.0
72.5°	2.7	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





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)