

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: P753058

Luminaire Tested: LD4D75BD010-EU4DR3070959050-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753058
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: LD4D75BD010-EU4DR3070959050-4LBS1H
Description: 4 INCH ROUND SHALLOW 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: 7850.8 lumens
Efficiency: N/A
Efficacy: 108.4 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): 72.4
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

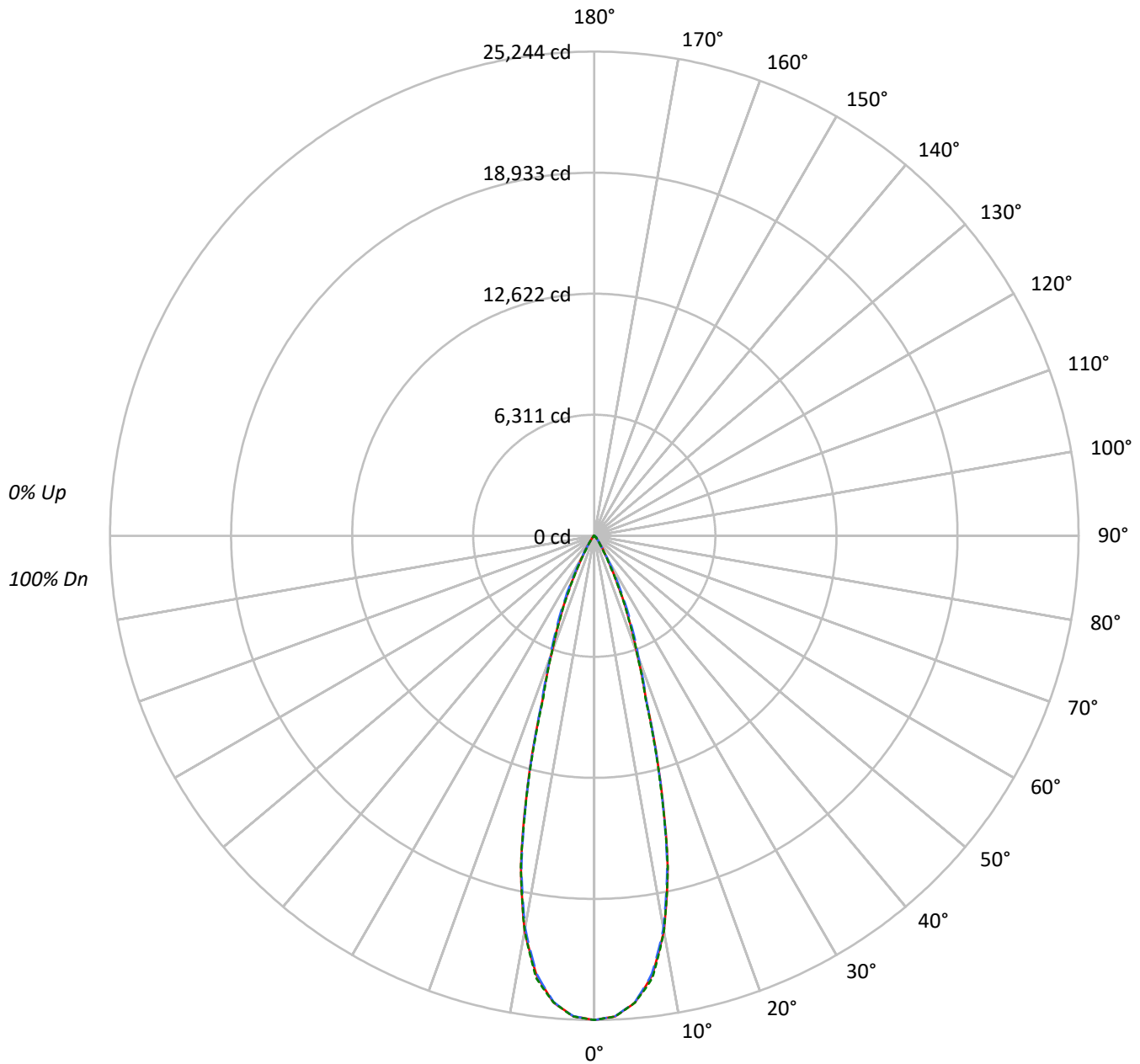


Downlight

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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
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°	1932269	1932269	1932269
5°	1876798	1874609	1876891
10°	1625594	1614130	1625205
15°	1060620	1054922	1049621
20°	527394	547179	526693
25°	265666	299583	260218
30°	106371	115899	92671
35°	49337	47254	39610
40°	21303	23651	20064
45°	15025	18651	15166
50°	5168	13575	5466
55°	2976	5618	3136
60°	2082	2465	2082
65°	1340	1340	1340
70°	828	559	828
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 18651 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2219.8	28.3
10°-20°	3575.1	45.5
20°-30°	1544.9	19.7
30°-40°	352.1	4.5
40°-50°	120.9	1.5
50°-60°	29.5	0.4
60°-70°	7.7	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°	7339.8	93.5
0°-40°	7691.9	98.0
0°-60°	7842.3	99.9
0°-90°	7850.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7850.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25244	25244	25244	25244	25244	
5°	24426	24403	24398	24448	24427	2222
15°	13384	13223	13312	13269	13246	3584
25°	3146	3265	3547	3182	3081	1506
35°	528	539	506	502	424	358
45°	139	172	172	172	140	99
55°	22	24	42	25	24	22
65°	7	7	7	7	7	7
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°	25244.1	25244.1	25244.1	25244.1	25244.1
2.5°	25076.8	25059.4	25069.3	25081.7	25086.7
5°	24426.1	24402.6	24397.6	24448.4	24427.3
7.5°	23113.6	23080.1	23029.3	23144.6	23252.4
10°	20914.9	20877.7	20767.4	20821.9	20909.9
12.5°	17668.9	17548.7	17546.2	17719.7	17696.2
15°	13384.3	13223.2	13312.4	13269.0	13245.5
17.5°	9000.5	8938.6	9057.5	9021.6	8866.7
20°	6474.6	6490.7	6717.5	6603.5	6466.0
22.5°	4724.6	4782.8	5051.8	4758.1	4650.2
25°	3145.6	3264.6	3547.2	3181.5	3081.1
27.5°	1934.7	1989.2	2275.5	1909.9	1855.4
30°	1203.5	1176.2	1311.3	1125.4	1048.5
32.5°	789.5	754.8	798.2	716.4	654.4
35°	528.0	539.1	505.7	502.0	423.9
37.5°	329.7	379.3	334.6	356.9	272.7
40°	213.2	275.1	236.7	261.5	200.8
42.5°	174.8	211.9	194.6	207.0	178.5
45°	138.8	172.3	172.3	172.3	140.1
47.5°	76.8	115.3	147.5	117.7	81.8
50°	43.4	58.3	114.0	60.7	45.9
52.5°	29.7	33.5	78.1	34.7	31.0
55°	22.3	23.5	42.1	24.8	23.5
57.5°	17.4	18.6	22.3	18.6	17.4
60°	13.6	13.6	16.1	14.9	13.6
62.5°	9.9	9.9	11.2	9.9	9.9
65°	7.4	7.4	7.4	7.4	7.4
67.5°	3.7	5.0	5.0	5.0	5.0
70°	3.7	2.5	2.5	2.5	3.7
72.5°	2.5	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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)