

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: P752252

Luminaire Tested: LD4D70BD010-EU4DR3070959035-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752252
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: LD4D70BD010-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: 7045.8 lumens
Efficiency: N/A
Efficacy: 105.8 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): 66.6
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

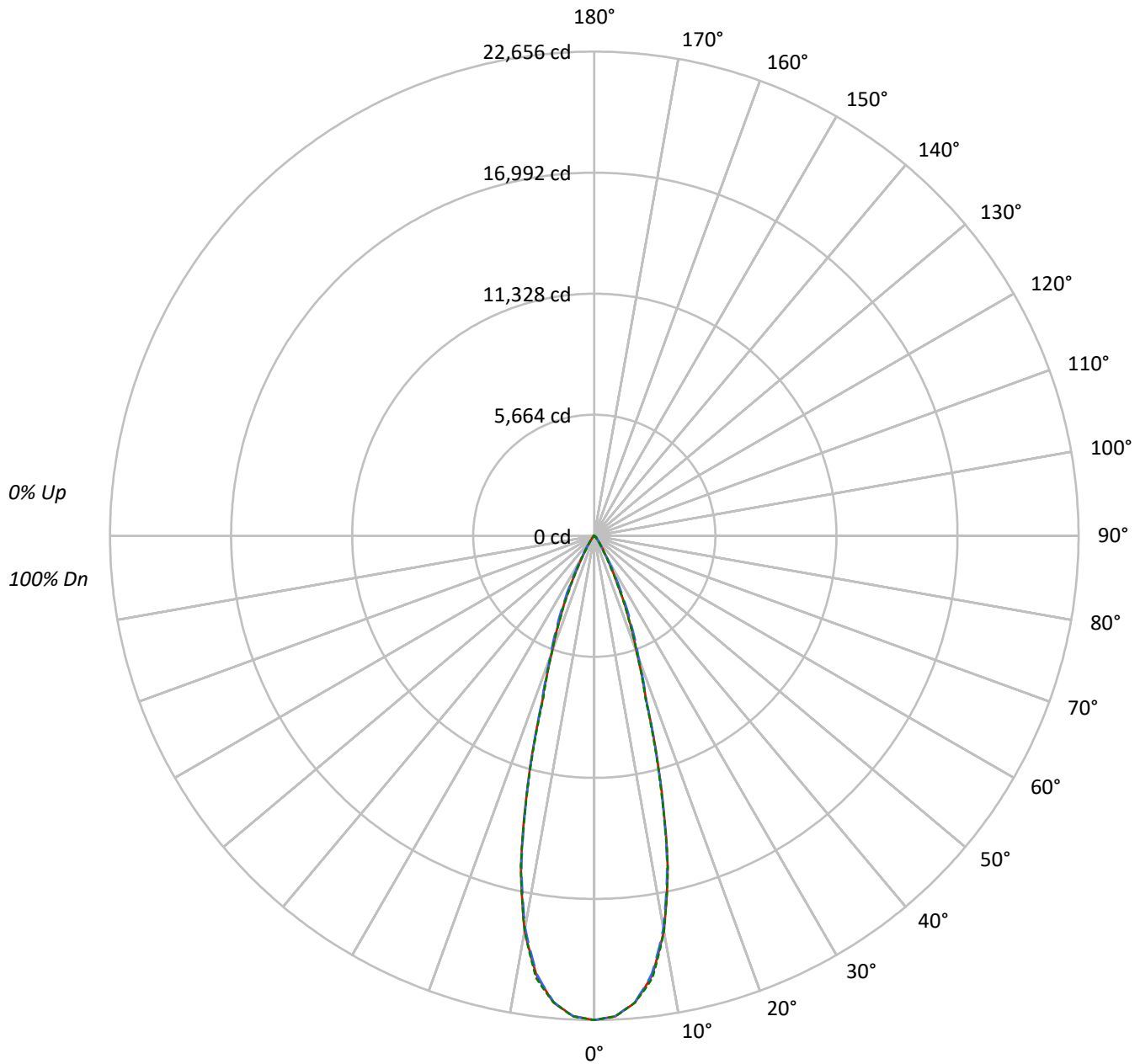


Downlight

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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
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°	1734144	1734144	1734144
5°	1684363	1682396	1684448
10°	1458914	1448624	1458572
15°	951866	946754	942000
20°	473323	491081	472688
25°	238429	268867	233539
30°	95464	104011	83170
35°	44273	42404	35545
40°	19115	21233	18006
45°	13488	16735	13607
50°	4632	12182	4906
55°	2669	5044	2816
60°	1868	2220	1868
65°	1213	1213	1213
70°	739	492	739
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 16735 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1992.2	28.3
10°-20°	3208.5	45.5
20°-30°	1386.5	19.7
30°-40°	316.0	4.5
40°-50°	108.5	1.5
50°-60°	26.5	0.4
60°-70°	6.9	0.1
70°-80°	0.7	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°	6587.2	93.5
0°-40°	6903.2	98.0
0°-60°	7038.2	99.9
0°-90°	7045.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7045.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22656	22656	22656	22656	22656	
5°	21922	21900	21896	21942	21923	1994
15°	12012	11867	11947	11908	11887	3216
25°	2823	2930	3184	2855	2765	1351
35°	474	484	454	450	380	321
45°	125	155	155	155	126	88
55°	20	21	38	22	21	19
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°	22655.7	22655.7	22655.7	22655.7	22655.7
2.5°	22505.6	22490.0	22498.9	22510.0	22514.5
5°	21921.6	21900.5	21896.0	21941.6	21922.7
7.5°	20743.7	20713.6	20668.0	20771.5	20868.2
10°	18770.4	18737.0	18638.0	18687.0	18766.0
12.5°	15857.2	15749.3	15747.1	15902.8	15881.7
15°	12011.9	11867.3	11947.4	11908.5	11887.4
17.5°	8077.7	8022.1	8128.8	8096.6	7957.5
20°	5810.8	5825.2	6028.8	5926.4	5803.0
22.5°	4240.2	4292.4	4533.8	4270.2	4173.4
25°	2823.1	2929.9	3183.5	2855.3	2765.2
27.5°	1736.3	1785.3	2042.2	1714.1	1665.1
30°	1080.1	1055.6	1176.8	1010.0	941.0
32.5°	708.5	677.4	716.3	642.9	587.3
35°	473.8	483.9	453.8	450.5	380.4
37.5°	295.9	340.4	300.3	320.3	244.7
40°	191.3	246.9	212.5	234.7	180.2
42.5°	156.8	190.2	174.6	185.8	160.2
45°	124.6	154.6	154.6	154.6	125.7
47.5°	69.0	103.4	132.4	105.7	73.4
50°	38.9	52.3	102.3	54.5	41.2
52.5°	26.7	30.0	70.1	31.1	27.8
55°	20.0	21.1	37.8	22.2	21.1
57.5°	15.6	16.7	20.0	16.7	15.6
60°	12.2	12.2	14.5	13.3	12.2
62.5°	8.9	8.9	10.0	8.9	8.9
65°	6.7	6.7	6.7	6.7	6.7
67.5°	3.3	4.4	4.4	4.4	4.4
70°	3.3	2.2	2.2	2.2	3.3
72.5°	2.2	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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)