

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: P752993

Luminaire Tested: LD4D75BD010-EU4DR3070959024-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752993
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-EU4DR3070959024-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6314.7 lumens
Efficiency: N/A
Efficacy: 87.2 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): 72.4
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

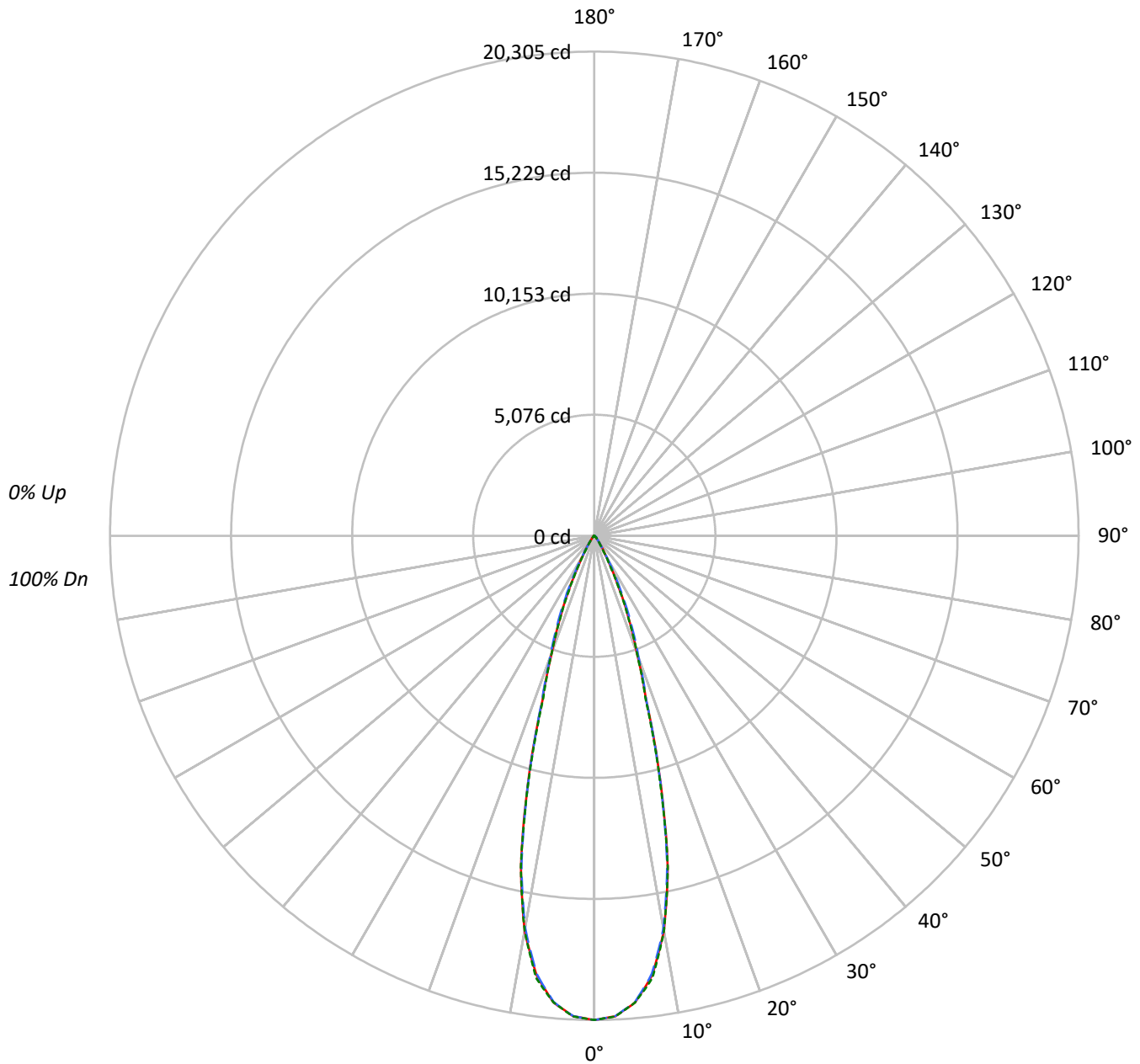


Downlight

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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				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°	1554198	1554198	1554198
5°	1509585	1507818	1509662
10°	1307523	1298305	1307220
15°	853096	848516	844245
20°	424205	440122	423635
25°	213683	240962	209308
30°	85556	93219	74544
35°	39685	38003	31854
40°	17136	19025	16137
45°	12091	15003	12189
50°	4156	10920	4394
55°	2389	4524	2522
60°	1684	1990	1684
65°	1087	1087	1087
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15003 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1785.5	28.3
10°-20°	2875.6	45.5
20°-30°	1242.6	19.7
30°-40°	283.2	4.5
40°-50°	97.2	1.5
50°-60°	23.8	0.4
60°-70°	6.2	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°	5903.7	93.5
0°-40°	6186.9	98.0
0°-60°	6307.9	99.9
0°-90°	6314.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6314.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20305	20305	20305	20305	20305	
5°	19647	19628	19624	19665	19648	1787
15°	10766	10636	10708	10673	10654	2883
25°	2530	2626	2853	2559	2478	1211
35°	425	434	407	404	341	288
45°	112	139	139	139	113	79
55°	18	19	34	20	19	17
65°	6	6	6	6	6	6
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°	20304.8	20304.8	20304.8	20304.8	20304.8
2.5°	20170.2	20156.3	20164.2	20174.2	20178.2
5°	19646.9	19627.9	19623.9	19664.8	19647.9
7.5°	18591.1	18564.2	18523.4	18616.1	18702.8
10°	16822.6	16792.7	16704.0	16747.9	16818.7
12.5°	14211.8	14115.1	14113.1	14252.6	14233.7
15°	10765.5	10635.9	10707.7	10672.8	10653.8
17.5°	7239.5	7189.6	7285.3	7256.4	7131.8
20°	5207.8	5220.8	5403.2	5311.5	5200.8
22.5°	3800.2	3847.0	4063.4	3827.1	3740.4
25°	2530.1	2625.8	2853.1	2559.0	2478.3
27.5°	1556.2	1600.0	1830.3	1536.2	1492.4
30°	968.0	946.1	1054.7	905.2	843.4
32.5°	635.0	607.1	642.0	576.2	526.4
35°	424.7	433.7	406.7	403.7	340.9
37.5°	265.2	305.1	269.2	287.1	219.3
40°	171.5	221.3	190.4	210.3	161.5
42.5°	140.6	170.5	156.5	166.5	143.6
45°	111.7	138.6	138.6	138.6	112.6
47.5°	61.8	92.7	118.6	94.7	65.8
50°	34.9	46.9	91.7	48.8	36.9
52.5°	23.9	26.9	62.8	27.9	24.9
55°	17.9	18.9	33.9	19.9	18.9
57.5°	14.0	15.0	17.9	15.0	14.0
60°	11.0	11.0	13.0	12.0	11.0
62.5°	8.0	8.0	9.0	8.0	8.0
65°	6.0	6.0	6.0	6.0	6.0
67.5°	3.0	4.0	4.0	4.0	4.0
70°	3.0	2.0	2.0	2.0	3.0
72.5°	2.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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)