

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: P753030

Luminaire Tested: LD4D75BD010-EU4DR3070959035-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753030
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-EU4DR3070959035-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6311.0 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

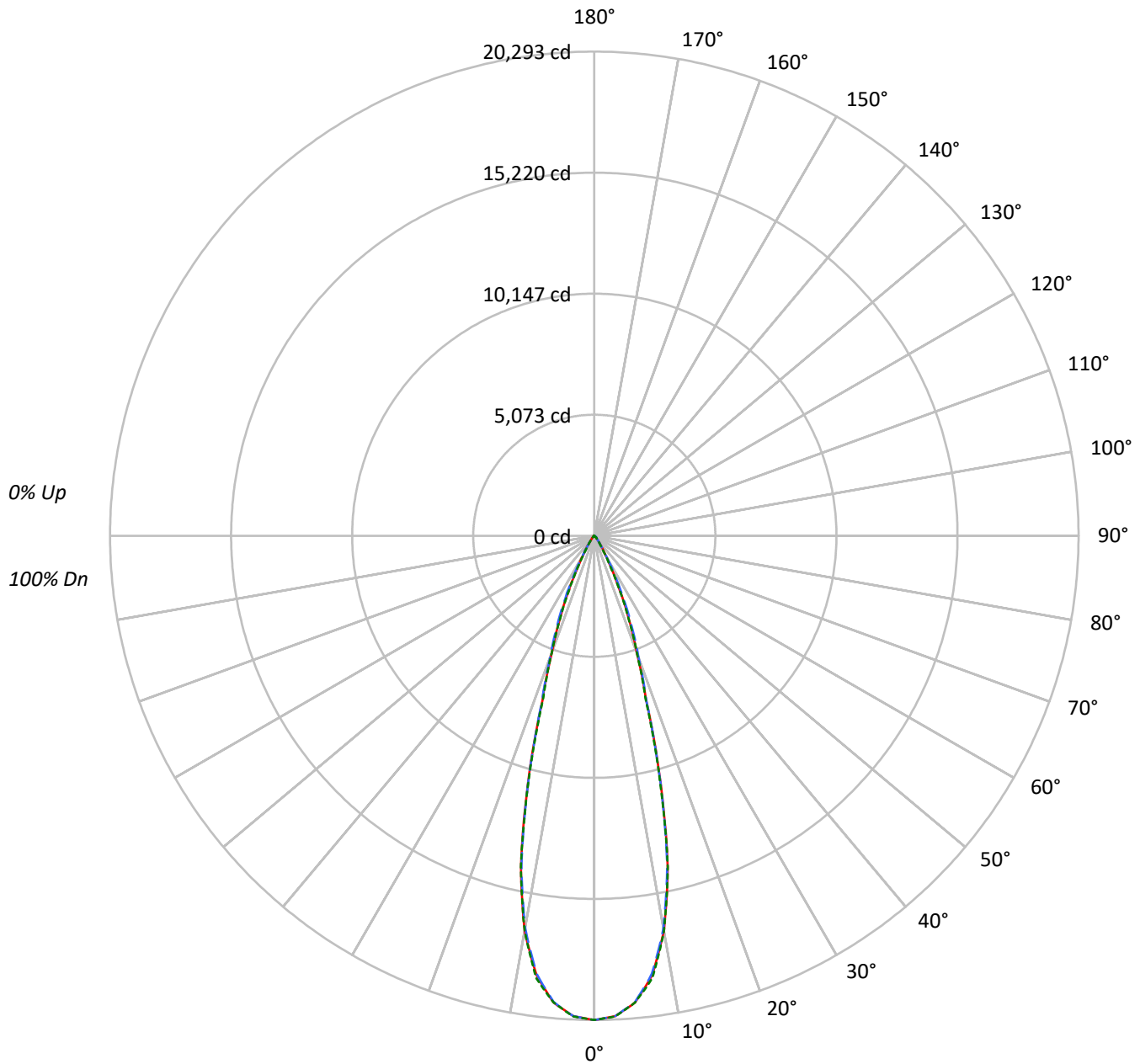


Downlight

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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°	1553272	1553272	1553272
5°	1508686	1506926	1508763
10°	1306754	1297536	1306443
15°	852589	848009	843746
20°	423953	439861	423383
25°	213556	240819	209181
30°	85503	93166	74499
35°	39657	37984	31836
40°	17126	19015	16127
45°	12081	14992	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: 14992 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1784.4	28.3
10°-20°	2873.9	45.5
20°-30°	1241.9	19.7
30°-40°	283.0	4.5
40°-50°	97.2	1.5
50°-60°	23.7	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°	5900.2	93.5
0°-40°	6183.2	98.0
0°-60°	6304.1	99.9
0°-90°	6311.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6311.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20293	20293	20293	20293	20293	
5°	19635	19616	19612	19653	19636	1786
15°	10759	10630	10701	10666	10648	2881
25°	2529	2624	2851	2558	2477	1210
35°	424	433	406	404	341	288
45°	112	138	138	138	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°	20292.7	20292.7	20292.7	20292.7	20292.7
2.5°	20158.2	20144.3	20152.3	20162.2	20166.2
5°	19635.2	19616.3	19612.3	19653.1	19636.2
7.5°	18580.1	18553.2	18512.4	18605.0	18691.7
10°	16812.7	16782.8	16694.1	16737.9	16808.7
12.5°	14203.3	14106.7	14104.7	14244.2	14225.2
15°	10759.1	10629.6	10701.3	10666.4	10647.5
17.5°	7235.2	7185.4	7281.0	7252.1	7127.6
20°	5204.7	5217.7	5400.0	5308.3	5197.7
22.5°	3797.9	3844.7	4060.9	3824.8	3738.1
25°	2528.6	2624.3	2851.4	2557.5	2476.8
27.5°	1555.2	1599.1	1829.2	1535.3	1491.5
30°	967.4	945.5	1054.1	904.6	842.9
32.5°	634.6	606.7	641.6	575.9	526.0
35°	424.4	433.4	406.5	403.5	340.7
37.5°	265.0	304.9	269.0	286.9	219.2
40°	171.4	221.2	190.3	210.2	161.4
42.5°	140.5	170.4	156.4	166.4	143.5
45°	111.6	138.5	138.5	138.5	112.6
47.5°	61.8	92.7	118.6	94.6	65.8
50°	34.9	46.8	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°	13.9	14.9	17.9	14.9	13.9
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)