

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: P753004

Luminaire Tested: LD4D75BD010-EU4DR3070959027-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753004
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-EU4DR3070959027-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6062.0 lumens
Efficiency: N/A
Efficacy: 83.7 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

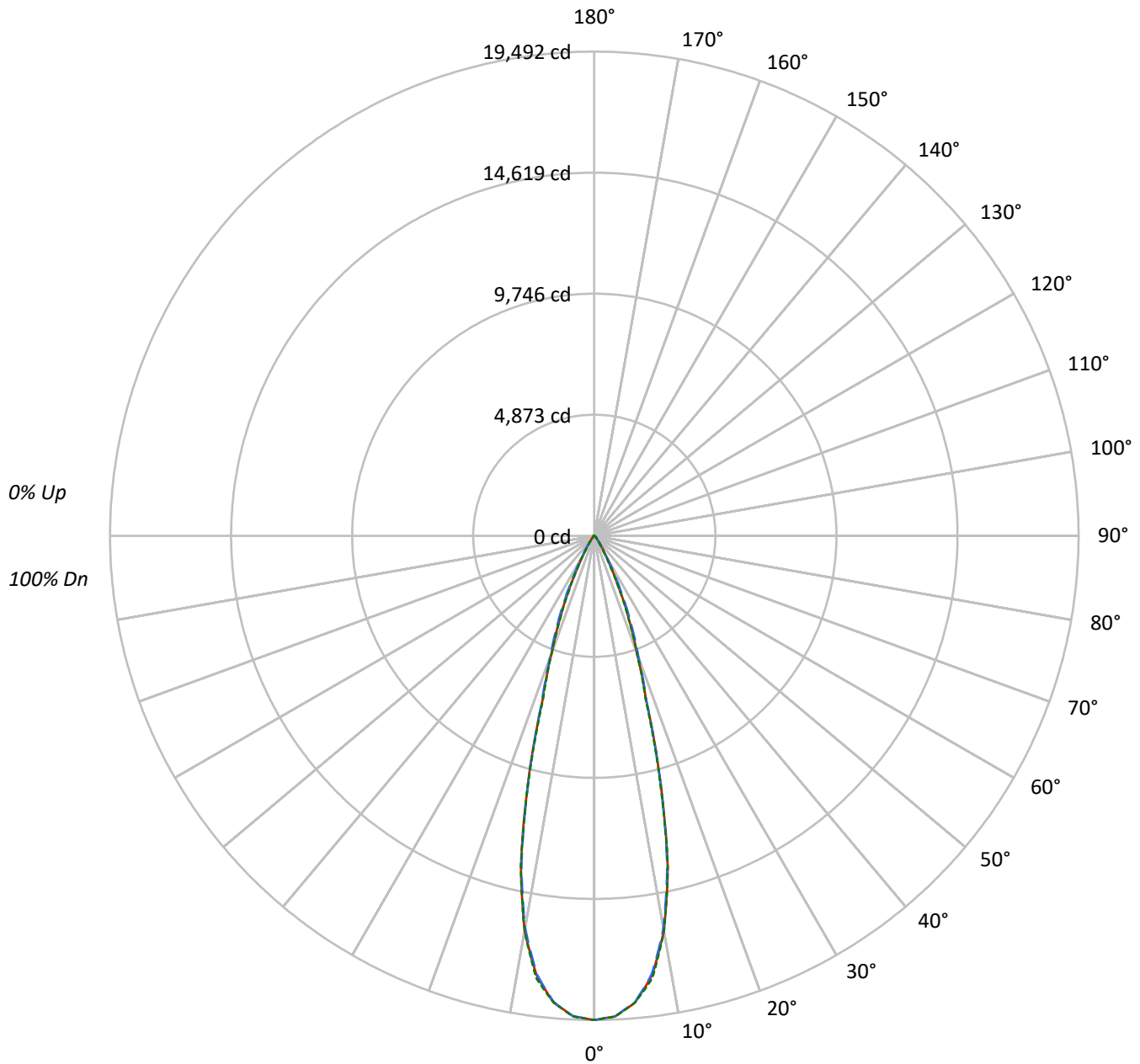


Downlight

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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					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°	1491999	1491999	1491999
5°	1449169	1447471	1449238
10°	1255199	1246346	1254896
15°	818950	814552	810463
20°	407230	422503	406684
25°	205136	231317	200930
30°	82127	89490	71556
35°	38096	36489	30584
40°	16447	18265	15488
45°	11604	14397	11702
50°	3989	10479	4215
55°	2295	4337	2429
60°	1607	1898	1607
65°	1032	1032	1032
70°	649	425	649
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 14397 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1714.0	28.3
10°-20°	2760.5	45.5
20°-30°	1192.9	19.7
30°-40°	271.9	4.5
40°-50°	93.3	1.5
50°-60°	22.8	0.4
60°-70°	5.9	0.1
70°-80°	0.6	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°	5667.4	93.5
0°-40°	5939.3	98.0
0°-60°	6055.4	99.9
0°-90°	6062.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6062.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19492	19492	19492	19492	19492	
5°	18861	18842	18838	18878	18862	1715
15°	10335	10210	10279	10246	10228	2767
25°	2429	2521	2739	2457	2379	1163
35°	408	416	390	388	327	277
45°	107	133	133	133	108	76
55°	17	18	32	19	18	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°	19492.2	19492.2	19492.2	19492.2	19492.2
2.5°	19363.0	19349.6	19357.2	19366.8	19370.6
5°	18860.6	18842.4	18838.5	18877.8	18861.5
7.5°	17847.1	17821.3	17782.0	17871.0	17954.3
10°	16149.4	16120.7	16035.5	16077.6	16145.5
12.5°	13643.0	13550.2	13548.2	13682.2	13664.0
15°	10334.6	10210.2	10279.1	10245.6	10227.5
17.5°	6949.7	6901.9	6993.8	6966.0	6846.4
20°	4999.4	5011.8	5186.9	5098.9	4992.7
22.5°	3648.1	3693.1	3900.7	3673.9	3590.7
25°	2428.9	2520.7	2738.9	2456.6	2379.1
27.5°	1493.9	1536.0	1757.1	1474.7	1432.6
30°	929.2	908.2	1012.5	869.0	809.6
32.5°	609.6	582.8	616.3	553.1	505.3
35°	407.7	416.3	390.5	387.6	327.3
37.5°	254.6	292.8	258.4	275.6	210.5
40°	164.6	212.5	182.8	201.9	155.0
42.5°	134.9	163.6	150.2	159.8	137.8
45°	107.2	133.0	133.0	133.0	108.1
47.5°	59.3	89.0	113.9	90.9	63.2
50°	33.5	45.0	88.0	46.9	35.4
52.5°	23.0	25.8	60.3	26.8	23.9
55°	17.2	18.2	32.5	19.1	18.2
57.5°	13.4	14.4	17.2	14.4	13.4
60°	10.5	10.5	12.4	11.5	10.5
62.5°	7.7	7.7	8.6	7.7	7.7
65°	5.7	5.7	5.7	5.7	5.7
67.5°	2.9	3.8	3.8	3.8	3.8
70°	2.9	1.9	1.9	1.9	2.9
72.5°	1.9	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)