

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: P753008

Luminaire Tested: LD4D75BD010-EU4DR3070959027-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753008
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-EU4DR3070959027-4LBS1MW
Description: 4 INCH ROUND SHALLOW 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: 6799.4 lumens
Efficiency: N/A
Efficacy: 93.9 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

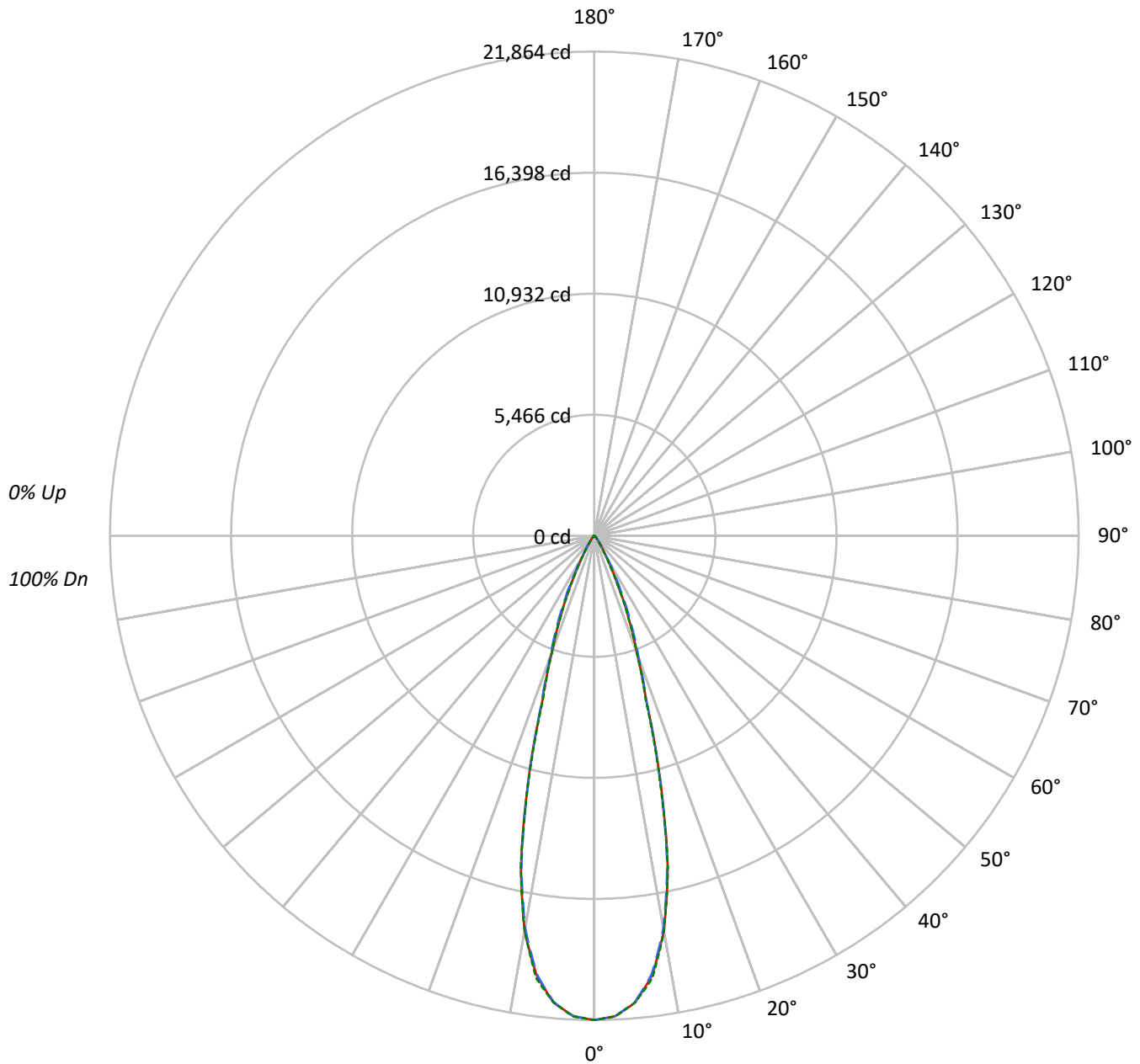


Downlight

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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°	1673507	1673507	1673507
5°	1625469	1623571	1625545
10°	1407904	1397971	1407570
15°	918583	913654	909058
20°	456771	473910	456161
25°	230093	259458	225372
30°	92123	100379	80262
35°	42731	40928	34303
40°	18445	20484	17376
45°	13011	16151	13131
50°	4477	11765	4727
55°	2576	4871	2722
60°	1806	2143	1806
65°	1159	1159	1159
70°	716	470	716
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 16151 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1922.6	28.3
10°-20°	3096.3	45.5
20°-30°	1338.0	19.7
30°-40°	305.0	4.5
40°-50°	104.7	1.5
50°-60°	25.6	0.4
60°-70°	6.6	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°	6356.9	93.5
0°-40°	6661.8	98.0
0°-60°	6792.1	99.9
0°-90°	6799.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6799.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21864	21864	21864	21864	21864	
5°	21155	21135	21130	21174	21156	1924
15°	11592	11452	11530	11492	11472	3104
25°	2724	2827	3072	2756	2668	1304
35°	457	467	438	435	367	310
45°	120	149	149	149	121	85
55°	19	20	36	22	20	19
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°	21863.5	21863.5	21863.5	21863.5	21863.5
2.5°	21718.6	21703.6	21712.2	21722.9	21727.2
5°	21155.1	21134.7	21130.4	21174.4	21156.1
7.5°	20018.3	19989.3	19945.3	20045.1	20138.5
10°	18114.1	18081.8	17986.3	18033.5	18109.8
12.5°	15302.8	15198.6	15196.5	15346.8	15326.4
15°	11591.9	11452.4	11529.7	11492.1	11471.7
17.5°	7795.2	7741.5	7844.6	7813.5	7679.3
20°	5607.6	5621.5	5818.0	5719.2	5600.1
22.5°	4091.9	4142.3	4375.3	4120.9	4027.5
25°	2724.4	2827.4	3072.1	2755.5	2668.5
27.5°	1675.6	1722.8	1970.8	1654.1	1606.9
30°	1042.3	1018.7	1135.7	974.7	908.1
32.5°	683.8	653.7	691.3	620.4	566.8
35°	457.3	466.9	438.0	434.7	367.1
37.5°	285.5	328.5	289.8	309.1	236.2
40°	184.6	238.3	205.0	226.5	173.9
42.5°	151.4	183.6	168.5	179.3	154.6
45°	120.2	149.2	149.2	149.2	121.3
47.5°	66.6	99.8	127.7	102.0	70.8
50°	37.6	50.5	98.8	52.6	39.7
52.5°	25.8	29.0	67.6	30.1	26.8
55°	19.3	20.4	36.5	21.5	20.4
57.5°	15.0	16.1	19.3	16.1	15.0
60°	11.8	11.8	14.0	12.9	11.8
62.5°	8.6	8.6	9.7	8.6	8.6
65°	6.4	6.4	6.4	6.4	6.4
67.5°	3.2	4.3	4.3	4.3	4.3
70°	3.2	2.1	2.1	2.1	3.2
72.5°	2.1	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)