

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: P753047

Luminaire Tested: LD4D75BD010-EU4DR3070959040-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753047
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-EU4DR3070959040-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7409.7 lumens
Efficiency: N/A
Efficacy: 102.3 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

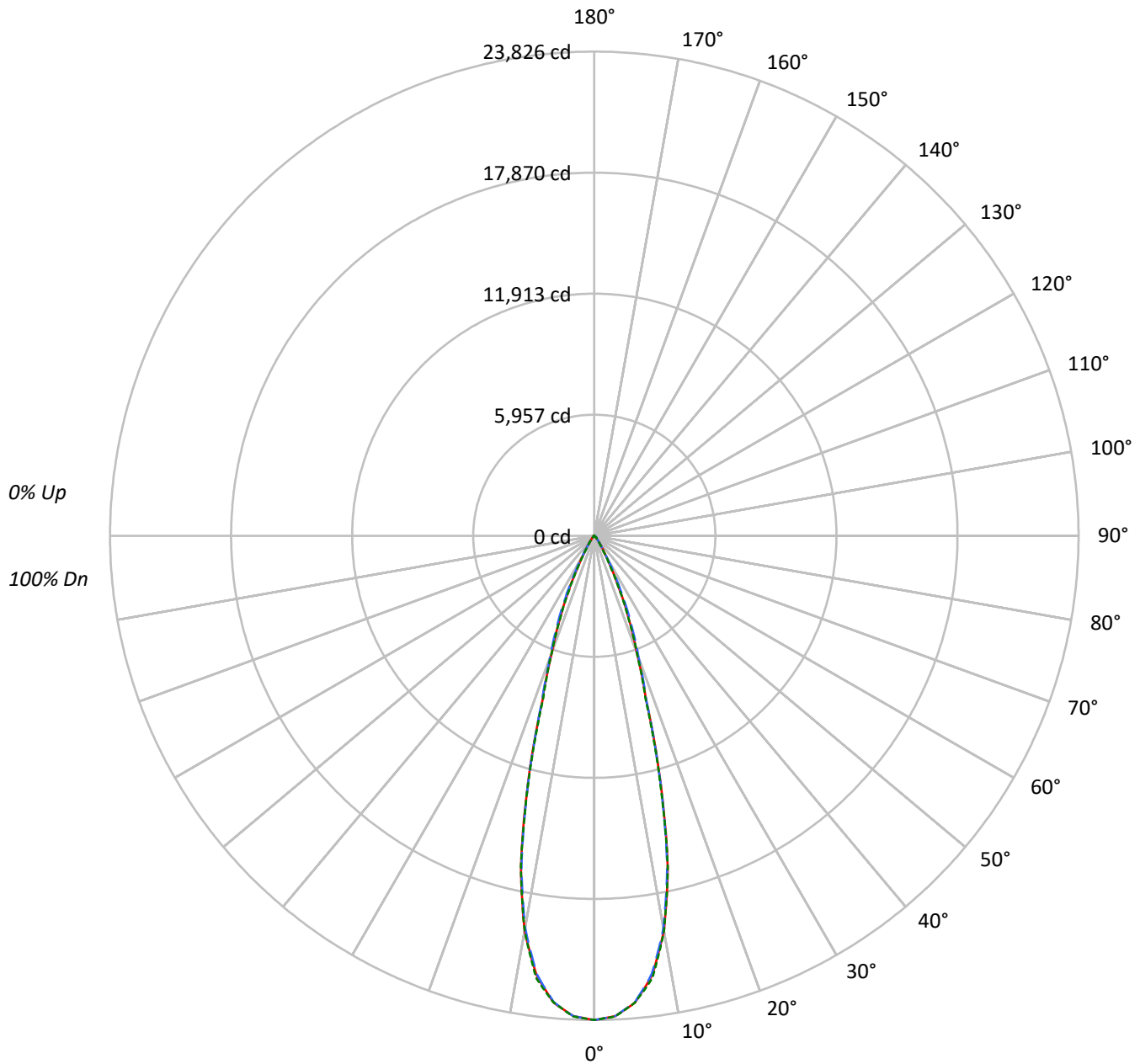


Downlight

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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	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°	1823692	1823692	1823692
5°	1771341	1769274	1771434
10°	1534252	1523433	1533887
15°	1001020	995648	990640
20°	497760	516438	497092
25°	250734	282743	245599
30°	100387	109385	87465
35°	46562	44600	37386
40°	20104	22322	18935
45°	14181	17601	14310
50°	4870	12813	5156
55°	2816	5311	2963
60°	1975	2327	1975
65°	1268	1268	1268
70°	783	515	783
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 17601 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2095.1	28.3
10°-20°	3374.2	45.5
20°-30°	1458.1	19.7
30°-40°	332.3	4.5
40°-50°	114.1	1.5
50°-60°	27.9	0.4
60°-70°	7.2	0.1
70°-80°	0.8	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°	6927.4	93.5
0°-40°	7259.7	98.0
0°-60°	7401.7	99.9
0°-90°	7409.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7409.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23826	23826	23826	23826	23826	
5°	23054	23031	23027	23075	23055	2097
15°	12632	12480	12564	12523	12501	3382
25°	2969	3081	3348	3003	2908	1421
35°	498	509	477	474	400	338
45°	131	163	163	163	132	93
55°	21	22	40	23	22	21
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°	23825.6	23825.6	23825.6	23825.6	23825.6
2.5°	23667.7	23651.3	23660.7	23672.4	23677.1
5°	23053.6	23031.4	23026.7	23074.7	23054.8
7.5°	21814.8	21783.2	21735.3	21844.1	21945.8
10°	19739.7	19704.6	19600.5	19651.9	19735.0
12.5°	16676.1	16562.6	16560.3	16724.0	16701.8
15°	12632.2	12480.2	12564.4	12523.4	12501.2
17.5°	8494.8	8436.3	8548.6	8514.7	8368.5
20°	6110.8	6126.0	6340.1	6232.5	6102.6
22.5°	4459.1	4514.1	4767.9	4490.7	4388.9
25°	2968.8	3081.1	3347.8	3002.8	2908.0
27.5°	1826.0	1877.5	2147.7	1802.6	1751.1
30°	1135.8	1110.1	1237.6	1062.1	989.6
32.5°	745.1	712.4	753.3	676.1	617.6
35°	498.3	508.8	477.3	473.8	400.1
37.5°	311.2	357.9	315.8	336.9	257.3
40°	201.2	259.7	223.4	246.8	189.5
42.5°	164.9	200.0	183.7	195.3	168.4
45°	131.0	162.6	162.6	162.6	132.2
47.5°	72.5	108.8	139.2	111.1	77.2
50°	40.9	55.0	107.6	57.3	43.3
52.5°	28.1	31.6	73.7	32.8	29.2
55°	21.1	22.2	39.8	23.4	22.2
57.5°	16.4	17.5	21.1	17.5	16.4
60°	12.9	12.9	15.2	14.0	12.9
62.5°	9.4	9.4	10.5	9.4	9.4
65°	7.0	7.0	7.0	7.0	7.0
67.5°	3.5	4.7	4.7	4.7	4.7
70°	3.5	2.3	2.3	2.3	3.5
72.5°	2.3	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report







(END OF REPORT)