

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: P750681

Luminaire Tested: LD4D60D010-EU4DR3055659030-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750681
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: LD4D60D010-EU4DR3055659030-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5878.9 lumens
Efficiency: N/A
Efficacy: 91.3 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): 64.4
Input Voltage (V): NR
Input Current (A_{in}): 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

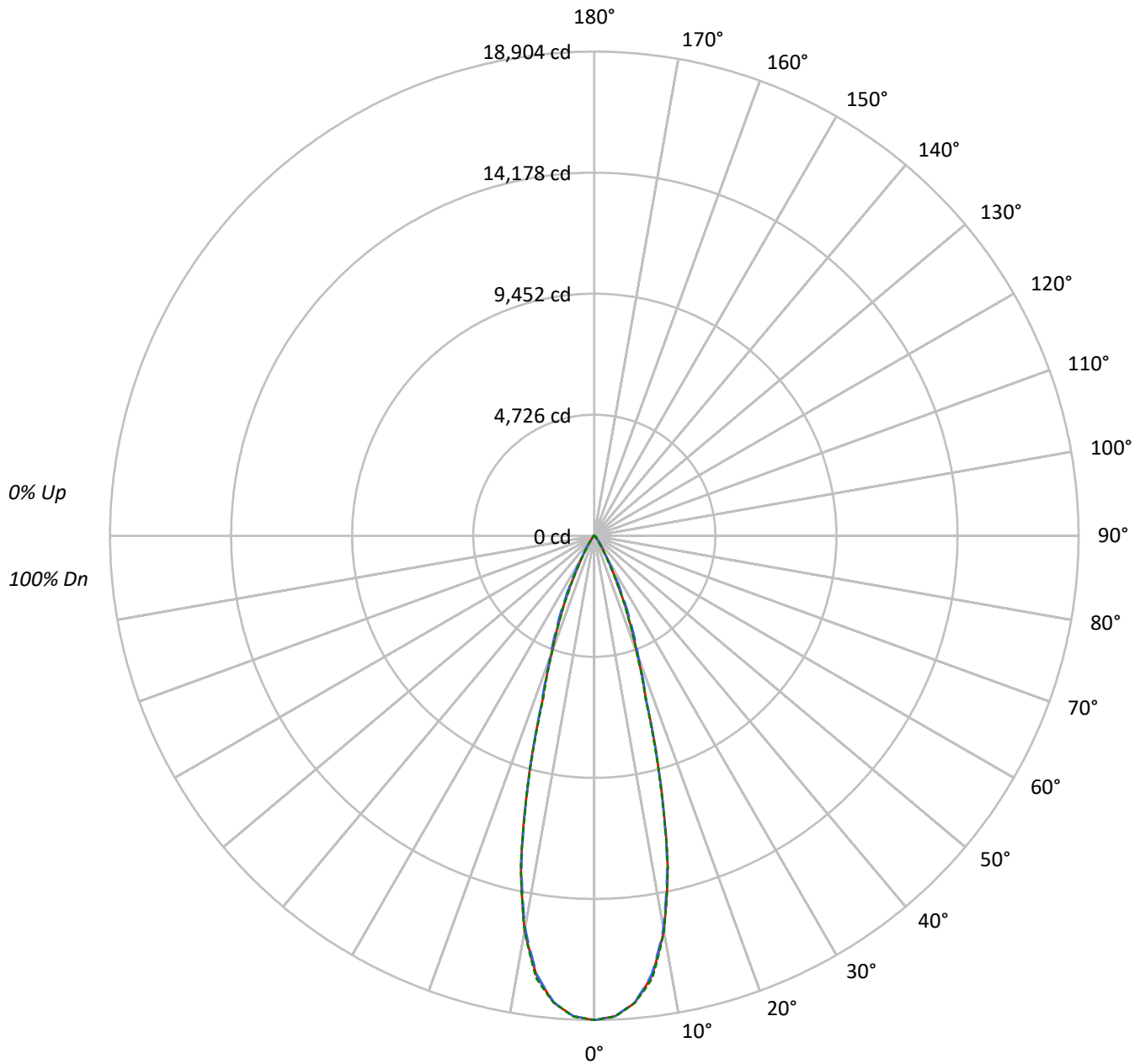


Downlight

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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°	1446946	1446946	1446946
5°	1405403	1403767	1405472
10°	1217293	1208712	1217006
15°	794226	789955	785985
20°	394930	409747	394401
25°	198937	224333	194866
30°	79652	86785	69400
35°	36947	35387	29659
40°	15947	17716	15028
45°	11247	13964	11355
50°	3870	10169	4084
55°	2229	4217	2349
60°	1561	1852	1561
65°	1014	1014	1014
70°	627	425	627
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 13964 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1662.3	28.3
10°-20°	2677.1	45.5
20°-30°	1156.9	19.7
30°-40°	263.7	4.5
40°-50°	90.5	1.5
50°-60°	22.1	0.4
60°-70°	5.7	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°	5496.3	93.5
0°-40°	5759.9	98.0
0°-60°	5872.6	99.9
0°-90°	5878.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5878.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18904	18904	18904	18904	18904	
5°	18291	18273	18270	18308	18292	1664
15°	10023	9902	9969	9936	9919	2684
25°	2356	2445	2656	2382	2307	1128
35°	395	404	379	376	317	268
45°	104	129	129	129	105	74
55°	17	18	32	19	18	16
65°	6	6	6	6	6	5
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°	18903.6	18903.6	18903.6	18903.6	18903.6
2.5°	18778.3	18765.3	18772.7	18782.0	18785.7
5°	18291.0	18273.4	18269.7	18307.7	18291.9
7.5°	17308.2	17283.1	17245.0	17331.4	17412.1
10°	15661.7	15633.9	15551.3	15592.1	15658.0
12.5°	13231.0	13141.0	13139.1	13269.1	13251.4
15°	10022.6	9901.9	9968.7	9936.2	9918.6
17.5°	6739.9	6693.5	6782.6	6755.6	6639.6
20°	4848.4	4860.5	5030.3	4944.9	4841.9
22.5°	3537.9	3581.5	3782.9	3563.0	3482.2
25°	2355.5	2444.6	2656.2	2382.4	2307.3
27.5°	1448.8	1489.6	1704.0	1430.2	1389.4
30°	901.2	880.8	981.9	842.7	785.2
32.5°	591.2	565.2	597.7	536.4	490.0
35°	395.4	403.7	378.7	375.9	317.4
37.5°	246.9	284.0	250.6	267.3	204.2
40°	159.6	206.0	177.3	195.8	150.4
42.5°	130.9	158.7	145.7	155.0	133.6
45°	103.9	129.0	129.0	129.0	104.9
47.5°	57.5	86.3	110.4	88.2	61.3
50°	32.5	43.6	85.4	45.5	34.3
52.5°	22.3	25.1	58.5	26.0	23.2
55°	16.7	17.6	31.6	18.6	17.6
57.5°	13.0	13.9	16.7	13.9	13.0
60°	10.2	10.2	12.1	11.1	10.2
62.5°	7.4	7.4	8.4	7.4	7.4
65°	5.6	5.6	5.6	5.6	5.6
67.5°	2.8	3.7	3.7	3.7	3.7
70°	2.8	1.9	1.9	1.9	2.8
72.5°	1.9	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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)