

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: P750675

Luminaire Tested: LD4D60D010-EU4DR3055659030-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750675
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-EU4DR3055659030-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5875.5 lumens
Efficiency: N/A
Efficacy: 91.2 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): 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

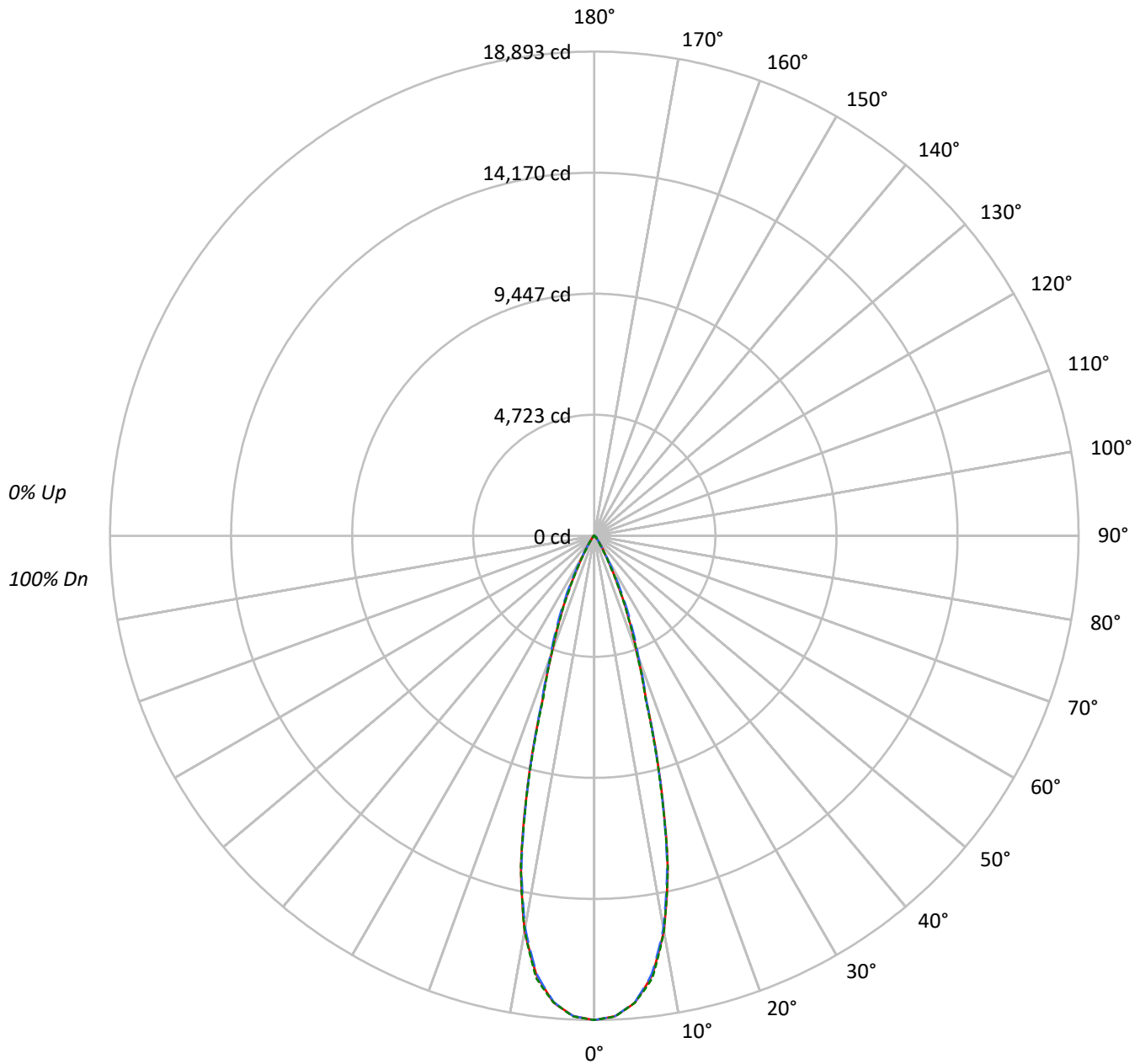


Downlight

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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°	1446104	1446104	1446104
5°	1404589	1402952	1404658
10°	1216586	1208005	1216298
15°	793759	789496	785533
20°	394702	409511	394173
25°	198827	224206	194748
30°	79608	86741	69355
35°	36919	35359	29640
40°	15937	17706	15018
45°	11247	13953	11344
50°	3870	10158	4084
55°	2229	4204	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: 13953 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1661.3	28.3
10°-20°	2675.6	45.5
20°-30°	1156.2	19.7
30°-40°	263.5	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°	5493.1	93.5
0°-40°	5756.6	98.0
0°-60°	5869.2	99.9
0°-90°	5875.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5875.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18893	18893	18893	18893	18893	
5°	18280	18263	18259	18297	18281	1663
15°	10017	9896	9963	9930	9913	2682
25°	2354	2443	2655	2381	2306	1127
35°	395	404	378	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°	18892.6	18892.6	18892.6	18892.6	18892.6
2.5°	18767.4	18754.4	18761.8	18771.1	18774.8
5°	18280.4	18262.8	18259.1	18297.1	18281.3
7.5°	17298.1	17273.1	17235.0	17321.3	17402.0
10°	15652.6	15624.8	15542.2	15583.1	15648.9
12.5°	13223.3	13133.4	13131.5	13261.4	13243.7
15°	10016.7	9896.2	9962.9	9930.5	9912.9
17.5°	6736.0	6689.6	6778.6	6751.7	6635.8
20°	4845.6	4857.6	5027.4	4942.1	4839.1
22.5°	3535.9	3579.5	3780.7	3560.9	3480.2
25°	2354.2	2443.2	2654.7	2381.1	2305.9
27.5°	1447.9	1488.7	1703.0	1429.4	1388.6
30°	900.7	880.3	981.4	842.2	784.7
32.5°	590.9	564.9	597.4	536.1	489.8
35°	395.1	403.5	378.4	375.7	317.2
37.5°	246.7	283.8	250.4	267.1	204.1
40°	159.5	205.9	177.2	195.7	150.3
42.5°	130.8	158.6	145.6	154.9	133.6
45°	103.9	128.9	128.9	128.9	104.8
47.5°	57.5	86.3	110.4	88.1	61.2
50°	32.5	43.6	85.3	45.5	34.3
52.5°	22.3	25.0	58.4	26.0	23.2
55°	16.7	17.6	31.5	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	8.3	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)