

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: P750693

Luminaire Tested: LD4D60D010-EU4DR3055659035-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750693
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-EU4DR3055659035-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6562.4 lumens
Efficiency: N/A
Efficacy: 101.9 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): 64.4
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

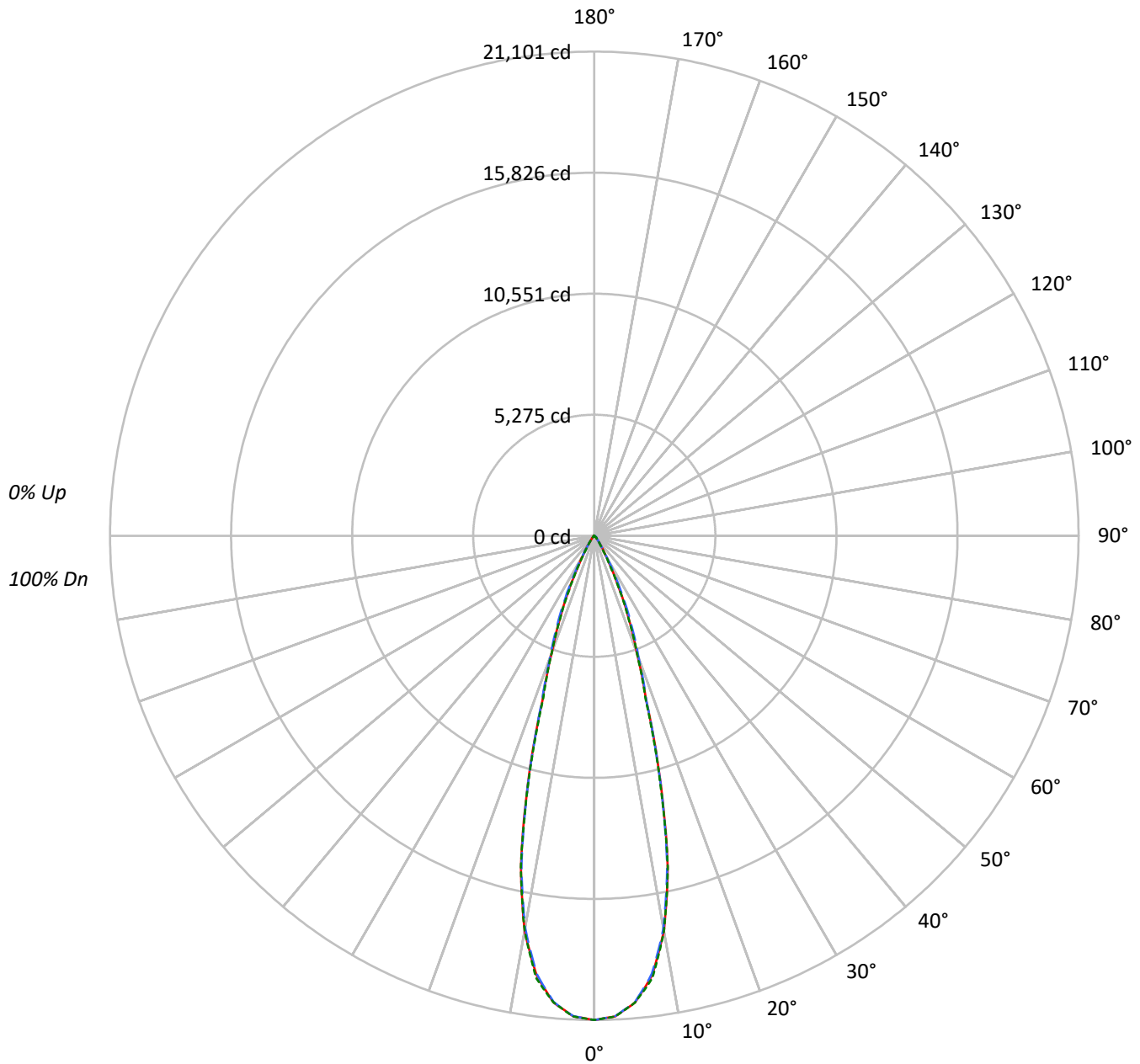


Downlight

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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	115	113	111	109	112	110	109	107		106	105	104		103	102	101		99	99	98
2	111	107	104	101	109	105	102	100		102	100	98		99	97	96		97	95	94
3	107	102	98	95	105	101	97	94		98	95	93		96	93	91		94	92	90
4	103	98	93	90	102	96	93	90		94	91	89		93	90	88		91	89	87
5	100	94	89	86	98	93	89	86		91	88	85		90	86	84		88	86	83
6	97	90	85	82	95	89	85	82		88	84	81		87	83	81		85	83	80
7	94	87	82	79	92	86	82	79		85	81	78		84	81	78		83	80	78
8	91	84	79	76	90	83	79	76		82	78	76		81	78	75		80	77	75
9	88	81	76	73	87	80	76	73		80	76	73		79	75	73		78	75	73
10	85	78	74	71	85	78	74	71		77	73	71		76	73	71		76	73	70

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1615158	1615158	1615158
5°	1568795	1566958	1568871
10°	1358813	1349230	1358487
15°	886561	881799	877361
20°	440847	457382	440252
25°	222069	250413	217517
30°	88915	96878	77469
35°	41236	39498	33107
40°	17806	19774	16767
45°	12557	15588	12676
50°	4323	11348	4561
55°	2482	4697	2629
60°	1745	2067	1745
65°	1123	1123	1123
70°	694	470	694
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15588 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1855.5	28.3
10°-20°	2988.4	45.5
20°-30°	1291.3	19.7
30°-40°	294.3	4.5
40°-50°	101.1	1.5
50°-60°	24.7	0.4
60°-70°	6.4	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°	6135.2	93.5
0°-40°	6429.6	98.0
0°-60°	6555.3	99.9
0°-90°	6562.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6562.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21101	21101	21101	21101	21101	
5°	20418	20398	20394	20436	20418	1857
15°	11188	11053	11128	11091	11072	2996
25°	2629	2729	2965	2659	2576	1259
35°	441	451	423	420	354	299
45°	116	144	144	144	117	82
55°	19	20	35	21	20	18
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°	21101.2	21101.2	21101.2	21101.2	21101.2
2.5°	20961.4	20946.9	20955.2	20965.5	20969.7
5°	20417.5	20397.8	20393.6	20436.1	20418.5
7.5°	19320.4	19292.4	19249.9	19346.3	19436.4
10°	17482.5	17451.4	17359.2	17404.8	17478.3
12.5°	14769.2	14668.7	14666.6	14811.7	14792.0
15°	11187.8	11053.1	11127.7	11091.4	11071.7
17.5°	7523.4	7471.6	7571.1	7541.0	7411.5
20°	5412.1	5425.5	5615.1	5519.8	5404.8
22.5°	3949.2	3997.9	4222.7	3977.2	3887.1
25°	2629.4	2728.8	2965.0	2659.4	2575.5
27.5°	1617.2	1662.8	1902.1	1596.5	1550.9
30°	1006.0	983.2	1096.1	940.7	876.5
32.5°	659.9	630.9	667.2	598.8	547.0
35°	441.3	450.7	422.7	419.6	354.3
37.5°	275.6	317.0	279.7	298.4	227.9
40°	178.2	230.0	197.9	218.6	167.8
42.5°	146.1	177.2	162.7	173.0	149.2
45°	116.0	144.0	144.0	144.0	117.1
47.5°	64.2	96.3	123.3	98.4	68.4
50°	36.3	48.7	95.3	50.8	38.3
52.5°	24.9	28.0	65.3	29.0	25.9
55°	18.6	19.7	35.2	20.7	19.7
57.5°	14.5	15.5	18.6	15.5	14.5
60°	11.4	11.4	13.5	12.4	11.4
62.5°	8.3	8.3	9.3	8.3	8.3
65°	6.2	6.2	6.2	6.2	6.2
67.5°	3.1	4.1	4.1	4.1	4.1
70°	3.1	2.1	2.1	2.1	3.1
72.5°	2.1	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)