

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: P750718

Luminaire Tested: LD4D60D010-EU4DR3055659050-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750718
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-EU4DR3055659050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6588.8 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): 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

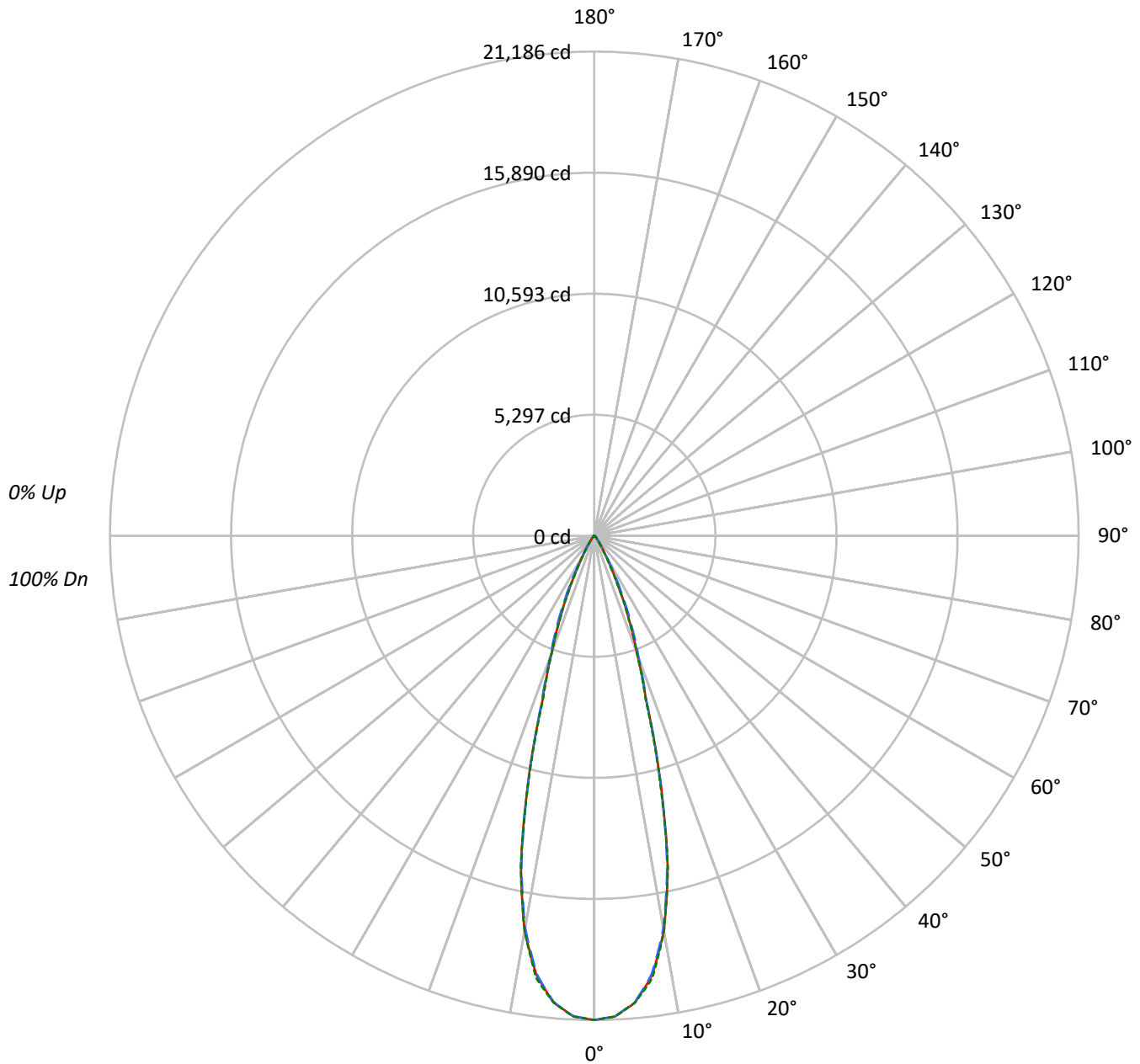


Downlight

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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					10
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°	1621664	1621664	1621664
5°	1575110	1573274	1575187
10°	1364285	1354663	1363959
15°	890127	885349	880895
20°	442623	459223	442028
25°	222965	251426	218396
30°	89269	97267	77779
35°	41404	39657	33237
40°	17876	19854	16837
45°	12611	15653	12719
50°	4335	11396	4585
55°	2496	4724	2642
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: 15653 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1863.0	28.3
10°-20°	3000.4	45.5
20°-30°	1296.5	19.7
30°-40°	295.5	4.5
40°-50°	101.5	1.5
50°-60°	24.8	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°	6159.9	93.5
0°-40°	6455.5	98.0
0°-60°	6581.7	99.9
0°-90°	6588.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6588.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21186	21186	21186	21186	21186	
5°	20500	20480	20476	20518	20501	1865
15°	11233	11098	11172	11136	11116	3008
25°	2640	2740	2977	2670	2586	1264
35°	443	452	424	421	356	301
45°	116	145	145	145	118	83
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°	21186.2	21186.2	21186.2	21186.2	21186.2
2.5°	21045.8	21031.2	21039.6	21050.0	21054.1
5°	20499.7	20479.9	20475.8	20518.4	20500.7
7.5°	19398.2	19370.1	19327.4	19424.2	19514.7
10°	17552.9	17521.7	17429.1	17474.9	17548.7
12.5°	14828.7	14727.8	14725.7	14871.3	14851.6
15°	11232.8	11097.6	11172.5	11136.1	11116.3
17.5°	7553.7	7501.7	7601.6	7571.4	7441.4
20°	5433.9	5447.4	5637.7	5542.0	5426.6
22.5°	3965.1	4014.0	4239.7	3993.2	3902.7
25°	2640.0	2739.8	2977.0	2670.1	2585.9
27.5°	1623.7	1669.5	1909.8	1602.9	1557.1
30°	1010.0	987.1	1100.5	944.5	880.0
32.5°	662.6	633.5	669.9	601.2	549.2
35°	443.1	452.5	424.4	421.3	355.7
37.5°	276.7	318.3	280.8	299.6	228.8
40°	178.9	230.9	198.7	219.5	168.5
42.5°	146.7	177.9	163.3	173.7	149.8
45°	116.5	144.6	144.6	144.6	117.5
47.5°	64.5	96.7	123.8	98.8	68.7
50°	36.4	48.9	95.7	51.0	38.5
52.5°	25.0	28.1	65.5	29.1	26.0
55°	18.7	19.8	35.4	20.8	19.8
57.5°	14.6	15.6	18.7	15.6	14.6
60°	11.4	11.4	13.5	12.5	11.4
62.5°	8.3	8.3	9.4	8.3	8.3
65°	6.2	6.2	6.2	6.2	6.2
67.5°	3.1	4.2	4.2	4.2	4.2
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)