

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: P750719

Luminaire Tested: LD4D60D010-EU4DR3055659050-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750719
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-EU4DR3055659050-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 6918.3 lumens
Efficiency: N/A
Efficacy: 107.4 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

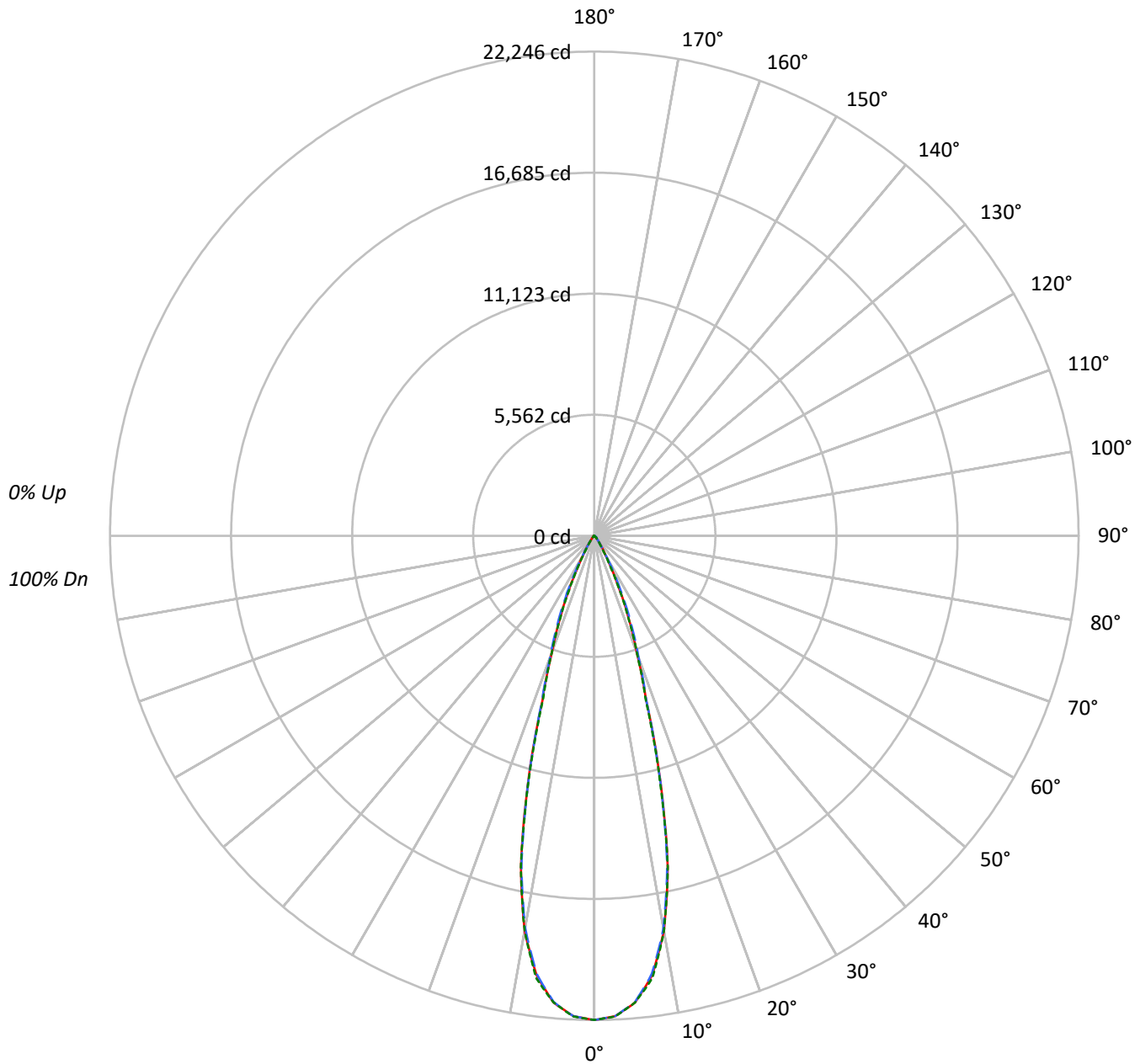


Downlight

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1702746	1702746	1702746
5°	1653867	1651939	1653952
10°	1432496	1422400	1432162
15°	934638	929614	924939
20°	464754	482186	464127
25°	234113	263993	229316
30°	93732	102129	81667
35°	43479	41638	34901
40°	18775	20843	17676
45°	13239	16432	13358
50°	4549	11968	4811
55°	2629	4951	2776
60°	1837	2174	1837
65°	1195	1195	1195
70°	739	492	739
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 16432 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1956.2	28.3
10°-20°	3150.4	45.5
20°-30°	1361.4	19.7
30°-40°	310.3	4.5
40°-50°	106.5	1.5
50°-60°	26.0	0.4
60°-70°	6.8	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°	6467.9	93.5
0°-40°	6778.2	98.0
0°-60°	6910.8	99.9
0°-90°	6918.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6918.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22246	22246	22246	22246	22246	
5°	21525	21504	21500	21544	21526	1958
15°	11794	11652	11731	11693	11672	3158
25°	2772	2877	3126	2804	2715	1327
35°	465	475	446	442	374	316
45°	122	152	152	152	123	87
55°	20	21	37	22	21	19
65°	7	7	7	7	7	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°	22245.5	22245.5	22245.5	22245.5	22245.5
2.5°	22098.1	22082.8	22091.5	22102.5	22106.8
5°	21524.7	21503.9	21499.6	21544.4	21525.8
7.5°	20368.1	20338.6	20293.8	20395.4	20490.4
10°	18430.5	18397.8	18300.6	18348.6	18426.2
12.5°	15570.1	15464.2	15462.0	15614.9	15594.2
15°	11794.5	11652.5	11731.1	11692.9	11672.1
17.5°	7931.4	7876.8	7981.7	7950.0	7813.5
20°	5705.6	5719.7	5919.6	5819.1	5697.9
22.5°	4163.4	4214.7	4451.7	4192.9	4097.9
25°	2772.0	2876.8	3125.8	2803.6	2715.2
27.5°	1704.9	1752.9	2005.2	1683.1	1635.0
30°	1060.5	1036.5	1155.5	991.7	924.0
32.5°	695.7	665.1	703.4	631.3	576.7
35°	465.3	475.1	445.6	442.3	373.5
37.5°	290.5	334.2	294.9	314.5	240.3
40°	187.9	242.5	208.6	230.5	176.9
42.5°	154.0	186.8	171.5	182.4	157.3
45°	122.3	151.8	151.8	151.8	123.4
47.5°	67.7	101.6	130.0	103.8	72.1
50°	38.2	51.3	100.5	53.5	40.4
52.5°	26.2	29.5	68.8	30.6	27.3
55°	19.7	20.8	37.1	21.8	20.8
57.5°	15.3	16.4	19.7	16.4	15.3
60°	12.0	12.0	14.2	13.1	12.0
62.5°	8.7	8.7	9.8	8.7	8.7
65°	6.6	6.6	6.6	6.6	6.6
67.5°	3.3	4.4	4.4	4.4	4.4
70°	3.3	2.2	2.2	2.2	3.3
72.5°	2.2	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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)