

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: P750687

Luminaire Tested: LD4D60D010-EU4DR3055659035-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750687
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-EU4DR3055659035-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4780.1 lumens
Efficiency: N/A
Efficacy: 74.2 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

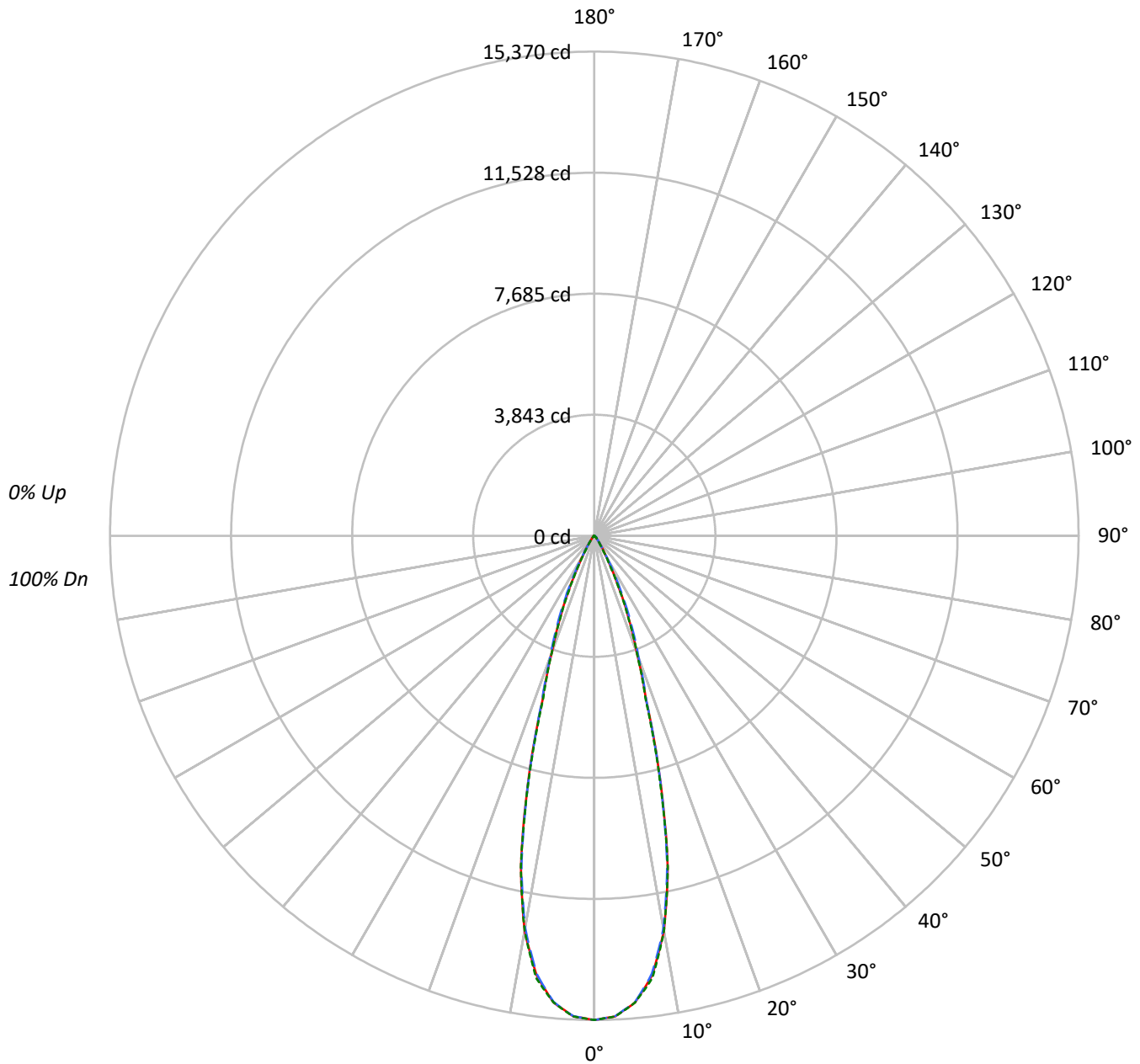


Downlight

TEST NUMBER: P750687

CATALOG NUMBER: LD4D60D010-EU4DR3055659035-4LBDP1B

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°	1176510	1176510	1176510
5°	1142732	1141403	1142794
10°	989779	982799	989546
15°	645787	642317	639083
20°	321115	333162	320691
25°	161759	182409	158440
30°	64768	70566	56425
35°	30042	28771	24117
40°	12970	14399	12220
45°	9147	11355	9234
50°	3144	8264	3322
55°	1815	3430	1908
60°	1271	1500	1271
65°	815	815	815
70°	515	336	515
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 11355 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1351.6	28.3
10°-20°	2176.8	45.5
20°-30°	940.6	19.7
30°-40°	214.4	4.5
40°-50°	73.6	1.5
50°-60°	18.0	0.4
60°-70°	4.6	0.1
70°-80°	0.5	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°	4469.0	93.5
0°-40°	4683.4	98.0
0°-60°	4775.0	99.9
0°-90°	4780.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4780.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15370	15370	15370	15370	15370	
5°	14872	14858	14855	14886	14873	1353
15°	8149	8051	8106	8079	8065	2182
25°	1915	1988	2160	1937	1876	917
35°	322	328	308	306	258	218
45°	84	105	105	105	85	60
55°	14	14	26	15	14	13
65°	4	4	4	4	4	4
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°	15370.5	15370.5	15370.5	15370.5	15370.5
2.5°	15268.6	15258.1	15264.1	15271.6	15274.7
5°	14872.4	14858.1	14855.1	14886.0	14873.2
7.5°	14073.3	14052.9	14022.0	14092.1	14157.8
10°	12734.5	12711.9	12644.7	12678.0	12731.5
12.5°	10758.1	10684.9	10683.4	10789.1	10774.7
15°	8149.4	8051.3	8105.6	8079.2	8064.8
17.5°	5480.2	5442.5	5514.9	5493.0	5398.7
20°	3942.2	3952.0	4090.1	4020.7	3937.0
22.5°	2876.7	2912.2	3075.9	2897.1	2831.4
25°	1915.3	1987.7	2159.8	1937.2	1876.0
27.5°	1178.0	1211.2	1385.5	1162.9	1129.7
30°	732.8	716.2	798.4	685.2	638.4
32.5°	480.7	459.6	486.0	436.2	398.4
35°	321.5	328.3	307.9	305.6	258.1
37.5°	200.7	230.9	203.8	217.3	166.0
40°	129.8	167.5	144.1	159.2	122.3
42.5°	106.4	129.0	118.5	126.0	108.7
45°	84.5	104.9	104.9	104.9	85.3
47.5°	46.8	70.2	89.8	71.7	49.8
50°	26.4	35.5	69.4	37.0	27.9
52.5°	18.1	20.4	47.5	21.1	18.9
55°	13.6	14.3	25.7	15.1	14.3
57.5°	10.6	11.3	13.6	11.3	10.6
60°	8.3	8.3	9.8	9.1	8.3
62.5°	6.0	6.0	6.8	6.0	6.0
65°	4.5	4.5	4.5	4.5	4.5
67.5°	2.3	3.0	3.0	3.0	3.0
70°	2.3	1.5	1.5	1.5	2.3
72.5°	1.5	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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)