

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: P750661

Luminaire Tested: LD4D60D010-EU4DR3055659027-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750661
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-EU4DR3055659027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4591.5 lumens
Efficiency: N/A
Efficacy: 71.3 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

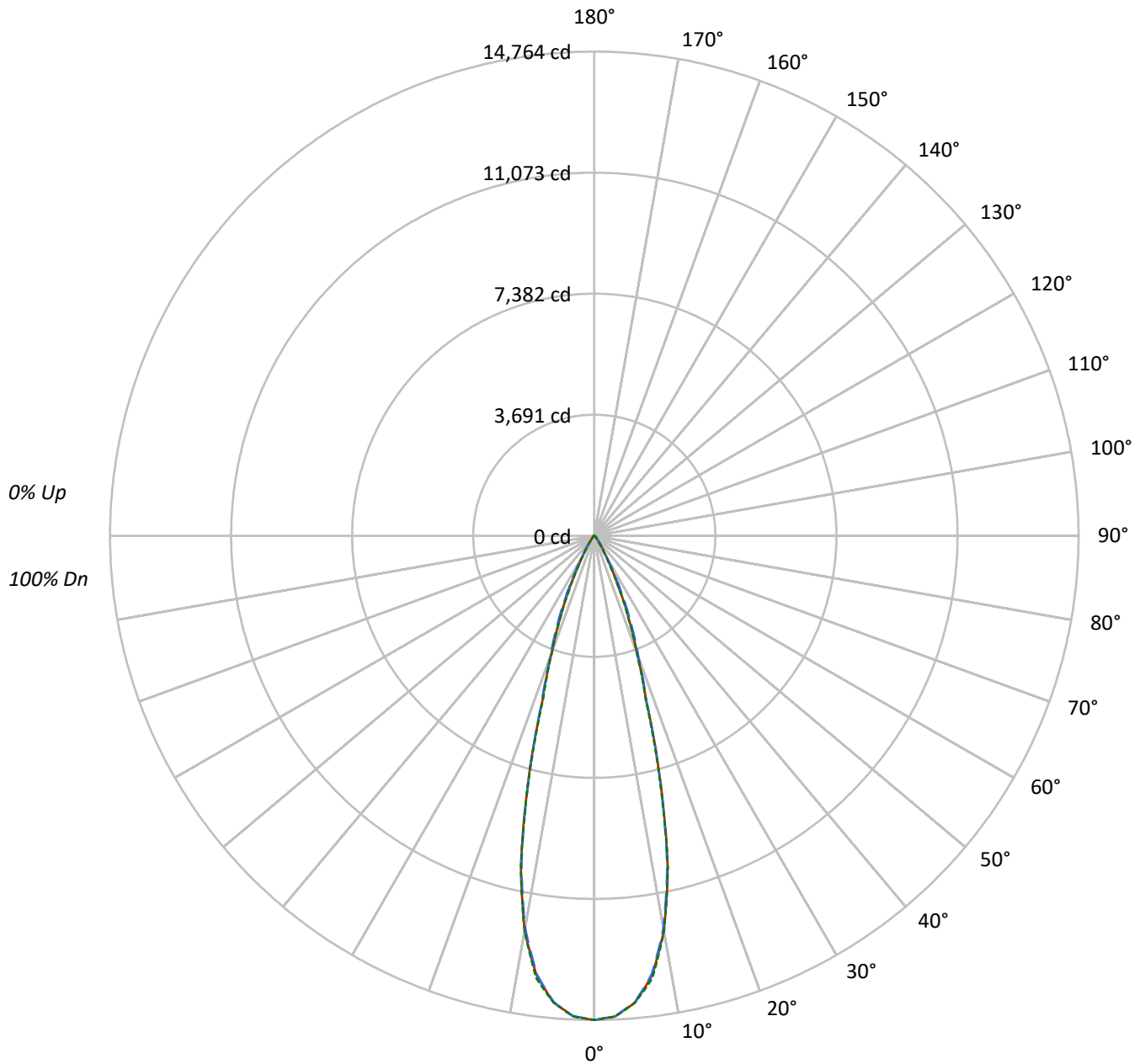


Downlight

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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					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°	1130094	1130094	1130094
5°	1097653	1096370	1097707
10°	950738	944030	950513
15°	620311	616974	613876
20°	308449	320023	308033
25°	155374	175213	152190
30°	62205	67782	54197
35°	28855	27631	23164
40°	12460	13829	11731
45°	8790	10911	8866
50°	3025	7943	3191
55°	1735	3283	1842
60°	1225	1439	1225
65°	779	779	779
70°	492	313	492
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 10911 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1298.3	28.3
10°-20°	2090.9	45.5
20°-30°	903.5	19.7
30°-40°	205.9	4.5
40°-50°	70.7	1.5
50°-60°	17.3	0.4
60°-70°	4.5	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°	4292.7	93.5
0°-40°	4498.6	98.0
0°-60°	4586.6	99.9
0°-90°	4591.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4591.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14764	14764	14764	14764	14764	
5°	14286	14272	14269	14299	14286	1299
15°	7828	7734	7786	7760	7747	2096
25°	1840	1909	2075	1861	1802	881
35°	309	315	296	294	248	209
45°	81	101	101	101	82	58
55°	13	14	25	14	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°	14764.1	14764.1	14764.1	14764.1	14764.1
2.5°	14666.3	14656.1	14661.9	14669.2	14672.1
5°	14285.7	14271.9	14269.0	14298.8	14286.4
7.5°	13518.1	13498.5	13468.8	13536.2	13599.3
10°	12232.2	12210.4	12145.9	12177.8	12229.3
12.5°	10333.7	10263.4	10262.0	10363.4	10349.7
15°	7827.9	7733.6	7785.8	7760.4	7746.7
17.5°	5264.0	5227.8	5297.3	5276.3	5185.7
20°	3786.7	3796.1	3928.8	3862.1	3781.6
22.5°	2763.2	2797.3	2954.6	2782.8	2719.7
25°	1839.7	1909.3	2074.6	1860.7	1802.0
27.5°	1131.5	1163.4	1330.9	1117.0	1085.1
30°	703.8	687.9	766.9	658.2	613.2
32.5°	461.7	441.4	466.8	419.0	382.7
35°	308.8	315.3	295.7	293.6	247.9
37.5°	192.8	221.8	195.7	208.8	159.5
40°	124.7	160.9	138.4	152.9	117.4
42.5°	102.2	124.0	113.8	121.1	104.4
45°	81.2	100.8	100.8	100.8	81.9
47.5°	44.9	67.4	86.3	68.9	47.8
50°	25.4	34.1	66.7	35.5	26.8
52.5°	17.4	19.6	45.7	20.3	18.1
55°	13.0	13.8	24.6	14.5	13.8
57.5°	10.1	10.9	13.0	10.9	10.1
60°	8.0	8.0	9.4	8.7	8.0
62.5°	5.8	5.8	6.5	5.8	5.8
65°	4.3	4.3	4.3	4.3	4.3
67.5°	2.2	2.9	2.9	2.9	2.9
70°	2.2	1.4	1.4	1.4	2.2
72.5°	1.4	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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)