

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: P750667

Luminaire Tested: LD4D60D010-EU4DR3055659027-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750667
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-EU4DR3055659027-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6303.5 lumens
Efficiency: N/A
Efficacy: 97.9 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

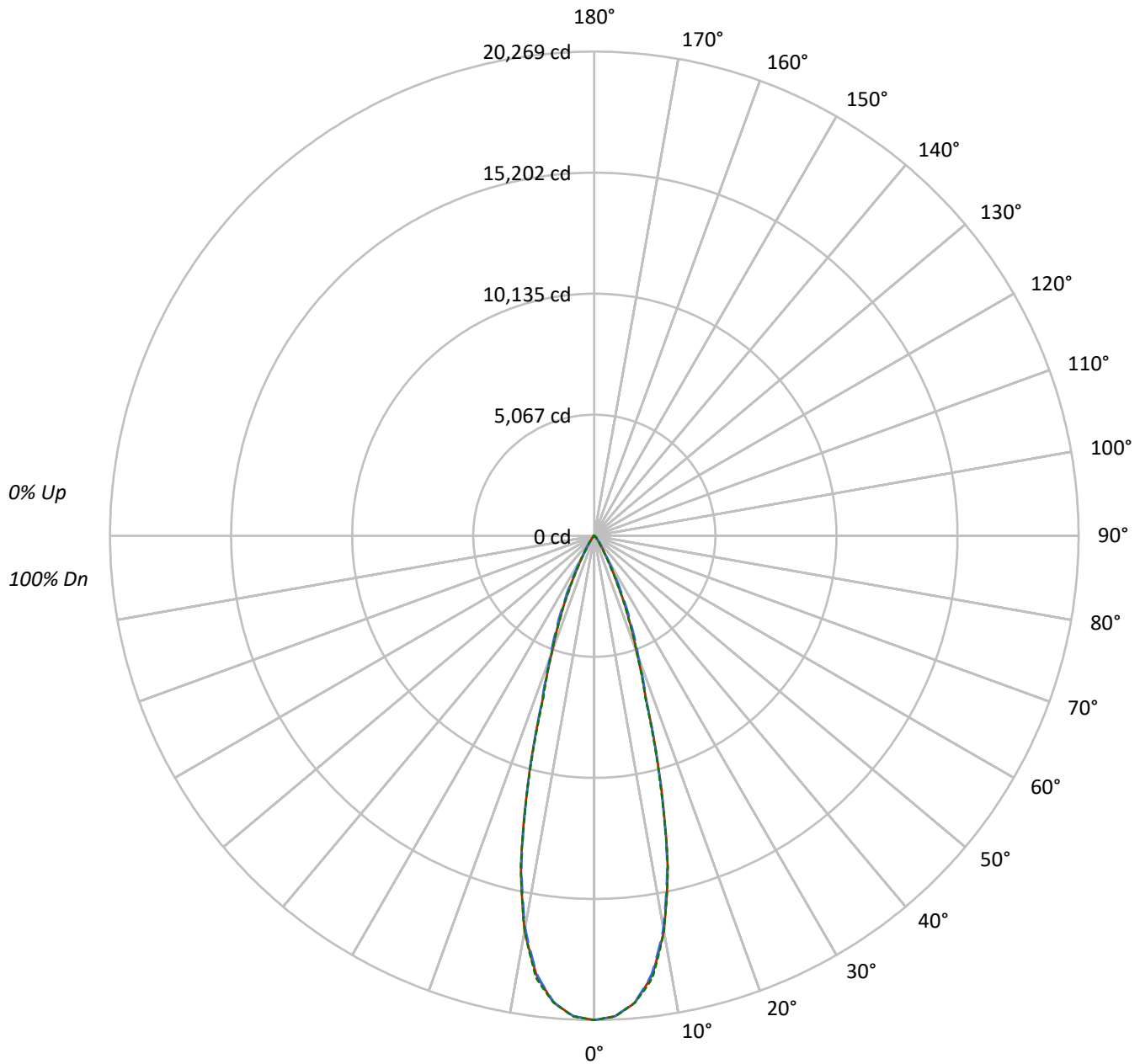


Downlight

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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					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°	1551443	1551443	1551443
5°	1506903	1505144	1506980
10°	1305207	1296004	1304896
15°	851583	847011	842747
20°	423448	439340	422886
25°	213303	240540	208936
30°	85406	93051	74411
35°	39610	37938	31798
40°	17106	18995	16107
45°	12070	14971	12167
50°	4144	10908	4382
55°	2389	4511	2522
60°	1669	1975	1669
65°	1087	1087	1087
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 14971 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1782.3	28.3
10°-20°	2870.5	45.5
20°-30°	1240.4	19.7
30°-40°	282.7	4.5
40°-50°	97.1	1.5
50°-60°	23.7	0.4
60°-70°	6.2	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°	5893.2	93.5
0°-40°	6175.9	98.0
0°-60°	6296.7	99.9
0°-90°	6303.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6303.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20269	20269	20269	20269	20269	
5°	19612	19593	19589	19630	19613	1784
15°	10746	10617	10689	10654	10635	2877
25°	2526	2621	2848	2554	2474	1209
35°	424	433	406	403	340	288
45°	112	138	138	138	112	79
55°	18	19	34	20	19	17
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°	20268.8	20268.8	20268.8	20268.8	20268.8
2.5°	20134.4	20120.5	20128.5	20138.4	20142.4
5°	19612.0	19593.1	19589.1	19629.9	19613.0
7.5°	18558.1	18531.3	18490.5	18583.0	18669.6
10°	16792.8	16762.9	16674.4	16718.2	16788.8
12.5°	14186.5	14090.0	14088.0	14227.3	14208.4
15°	10746.4	10617.0	10688.7	10653.8	10634.9
17.5°	7226.6	7176.9	7272.4	7243.5	7119.1
20°	5198.5	5211.5	5393.6	5302.0	5191.6
22.5°	3793.4	3840.2	4056.1	3820.3	3733.7
25°	2525.6	2621.2	2848.1	2554.5	2473.9
27.5°	1553.4	1597.2	1827.1	1533.5	1489.7
30°	966.3	944.4	1052.8	903.6	841.9
32.5°	633.9	606.0	640.9	575.2	525.4
35°	423.9	432.9	406.0	403.0	340.3
37.5°	264.7	304.5	268.7	286.6	218.9
40°	171.2	220.9	190.1	210.0	161.2
42.5°	140.3	170.2	156.2	166.2	143.3
45°	111.5	138.3	138.3	138.3	112.4
47.5°	61.7	92.5	118.4	94.5	65.7
50°	34.8	46.8	91.6	48.8	36.8
52.5°	23.9	26.9	62.7	27.9	24.9
55°	17.9	18.9	33.8	19.9	18.9
57.5°	13.9	14.9	17.9	14.9	13.9
60°	10.9	10.9	12.9	11.9	10.9
62.5°	8.0	8.0	9.0	8.0	8.0
65°	6.0	6.0	6.0	6.0	6.0
67.5°	3.0	4.0	4.0	4.0	4.0
70°	3.0	2.0	2.0	2.0	3.0
72.5°	2.0	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)