

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: P750689

Luminaire Tested: LD4D60D010-EU4DR3055659035-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750689
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-EU4DR3055659035-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6234.3 lumens
Efficiency: N/A
Efficacy: 96.8 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

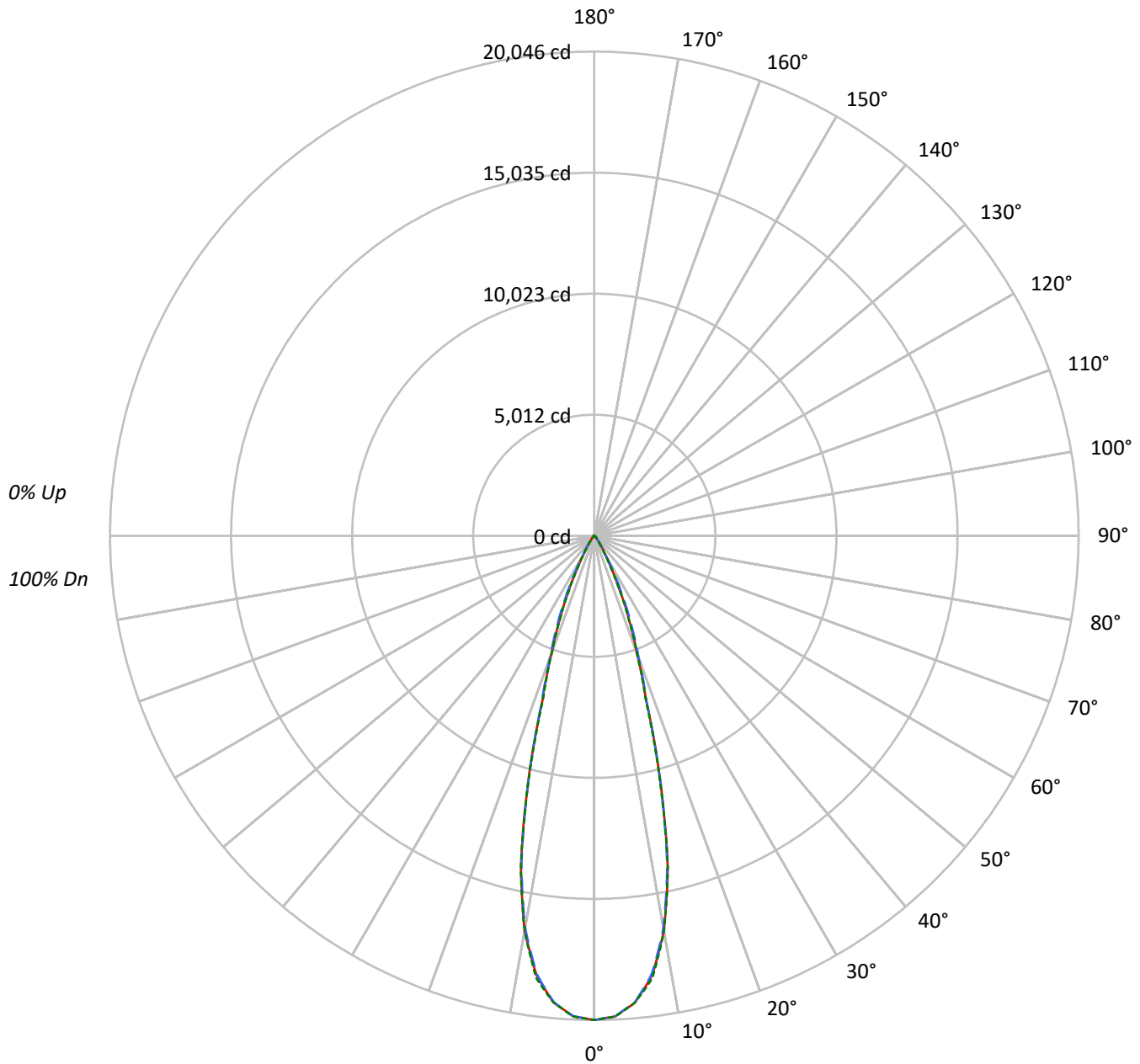


Downlight

TEST NUMBER: P750689

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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°	1534404	1534404	1534404
5°	1490353	1488616	1490430
10°	1290875	1281765	1290564
15°	842232	837707	833492
20°	418805	434518	418243
25°	210963	237896	206639
30°	84469	92035	73589
35°	39180	37526	31453
40°	16917	18785	15927
45°	11929	14808	12037
50°	4096	10777	4335
55°	2362	4471	2496
60°	1653	1960	1653
65°	1069	1069	1069
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: 14808 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1762.8	28.3
10°-20°	2838.9	45.5
20°-30°	1226.8	19.7
30°-40°	279.6	4.5
40°-50°	96.0	1.5
50°-60°	23.5	0.4
60°-70°	6.1	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°	5828.5	93.5
0°-40°	6108.1	98.0
0°-60°	6227.5	99.9
0°-90°	6234.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6234.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20046	20046	20046	20046	20046	
5°	19397	19378	19374	19414	19398	1764
15°	10628	10500	10571	10537	10518	2846
25°	2498	2592	2817	2526	2447	1196
35°	419	428	402	399	337	284
45°	110	137	137	137	111	78
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°	20046.2	20046.2	20046.2	20046.2	20046.2
2.5°	19913.3	19899.5	19907.4	19917.2	19921.2
5°	19396.6	19377.9	19374.0	19414.3	19397.6
7.5°	18354.3	18327.8	18287.4	18378.9	18464.6
10°	16608.4	16578.8	16491.2	16534.6	16604.4
12.5°	14030.7	13935.3	13933.3	14071.1	14052.4
15°	10628.4	10500.4	10571.3	10536.8	10518.1
17.5°	7147.3	7098.0	7192.5	7164.0	7041.0
20°	5141.5	5154.3	5334.4	5243.8	5134.6
22.5°	3751.8	3798.0	4011.6	3778.3	3692.7
25°	2497.9	2592.4	2816.8	2526.4	2446.7
27.5°	1536.3	1579.6	1807.0	1516.7	1473.3
30°	955.7	934.0	1041.3	893.7	832.6
32.5°	626.9	599.4	633.8	568.9	519.7
35°	419.3	428.1	401.6	398.6	336.6
37.5°	261.8	301.2	265.7	283.4	216.5
40°	169.3	218.5	188.0	207.7	159.4
42.5°	138.8	168.3	154.5	164.4	141.7
45°	110.2	136.8	136.8	136.8	111.2
47.5°	61.0	91.5	117.1	93.5	65.0
50°	34.4	46.3	90.5	48.2	36.4
52.5°	23.6	26.6	62.0	27.6	24.6
55°	17.7	18.7	33.5	19.7	18.7
57.5°	13.8	14.8	17.7	14.8	13.8
60°	10.8	10.8	12.8	11.8	10.8
62.5°	7.9	7.9	8.9	7.9	7.9
65°	5.9	5.9	5.9	5.9	5.9
67.5°	3.0	3.9	3.9	3.9	3.9
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)