

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: P750706

Luminaire Tested: LD4D60D010-EU4DR3055659040-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750706
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-EU4DR3055659040-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6869.2 lumens
Efficiency: N/A
Efficacy: 106.7 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

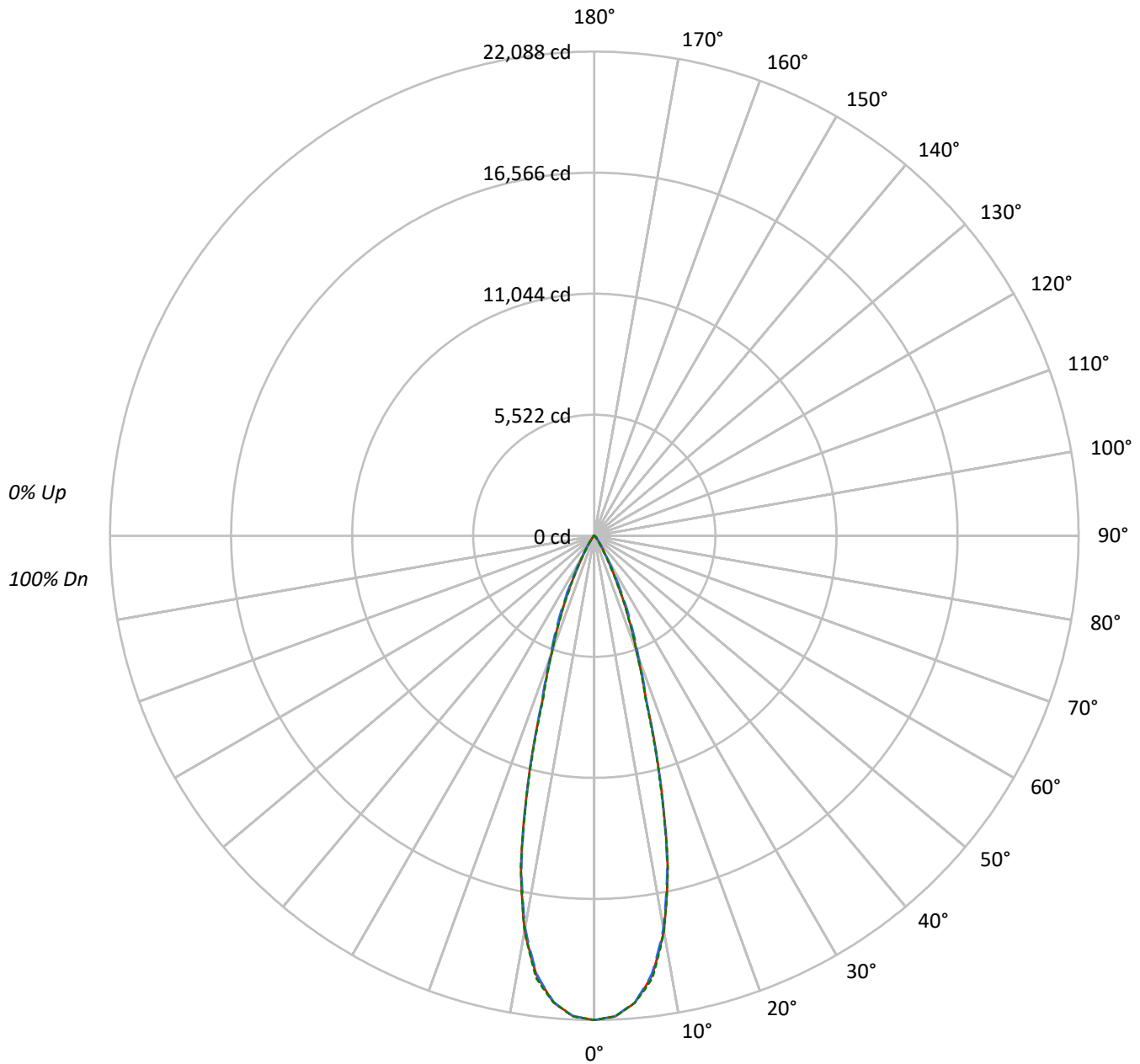


Downlight

TEST NUMBER: P750706

CATALOG NUMBER: LD4D60D010-EU4DR3055659040-4LBS1LI

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°	1690675	1690675	1690675
5°	1642134	1640221	1642219
10°	1422337	1412311	1422003
15°	928005	923021	918385
20°	461455	478764	460836
25°	232449	262127	227686
30°	93069	101404	81084
35°	43170	41339	34658
40°	18635	20693	17556
45°	13152	16313	13260
50°	4525	11884	4775
55°	2602	4924	2749
60°	1822	2159	1822
65°	1177	1177	1177
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: 16313 cd/sqm

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CATALOG NUMBER: LD4D60D010-EU4DR3055659040-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1942.3	28.3
10°-20°	3128.1	45.5
20°-30°	1351.7	19.7
30°-40°	308.1	4.5
40°-50°	105.8	1.5
50°-60°	25.8	0.4
60°-70°	6.7	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°	6422.1	93.5
0°-40°	6730.1	98.0
0°-60°	6861.8	99.9
0°-90°	6869.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6869.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22088	22088	22088	22088	22088	
5°	21372	21351	21347	21392	21373	1944
15°	11711	11570	11648	11610	11589	3136
25°	2752	2856	3104	2784	2696	1317
35°	462	472	442	439	371	313
45°	122	151	151	151	122	86
55°	20	21	37	22	21	19
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°	22087.8	22087.8	22087.8	22087.8	22087.8
2.5°	21941.4	21926.2	21934.9	21945.7	21950.0
5°	21372.0	21351.4	21347.1	21391.6	21373.1
7.5°	20223.6	20194.3	20149.9	20250.7	20345.1
10°	18299.8	18267.3	18170.8	18218.5	18295.5
12.5°	15459.7	15354.5	15352.3	15504.2	15483.6
15°	11710.8	11569.8	11647.9	11610.0	11589.4
17.5°	7875.2	7820.9	7925.0	7893.6	7758.0
20°	5665.1	5679.2	5877.6	5777.9	5657.5
22.5°	4133.9	4184.8	4420.2	4163.1	4068.8
25°	2752.3	2856.4	3103.7	2783.7	2695.9
27.5°	1692.8	1740.5	1991.0	1671.1	1623.4
30°	1053.0	1029.1	1147.3	984.7	917.4
32.5°	690.8	660.4	698.4	626.8	572.6
35°	462.0	471.7	442.4	439.2	370.9
37.5°	288.5	331.8	292.8	312.3	238.6
40°	186.5	240.7	207.1	228.8	175.7
42.5°	152.9	185.4	170.3	181.1	156.2
45°	121.5	150.7	150.7	150.7	122.5
47.5°	67.2	100.9	129.0	103.0	71.6
50°	38.0	51.0	99.8	53.1	40.1
52.5°	26.0	29.3	68.3	30.4	27.1
55°	19.5	20.6	36.9	21.7	20.6
57.5°	15.2	16.3	19.5	16.3	15.2
60°	11.9	11.9	14.1	13.0	11.9
62.5°	8.7	8.7	9.8	8.7	8.7
65°	6.5	6.5	6.5	6.5	6.5
67.5°	3.3	4.3	4.3	4.3	4.3
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)