

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: P750677

Luminaire Tested: LD4D60D010-EU4DR3055659030-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750677
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-EU4DR3055659030-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5241.3 lumens
Efficiency: N/A
Efficacy: 81.4 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

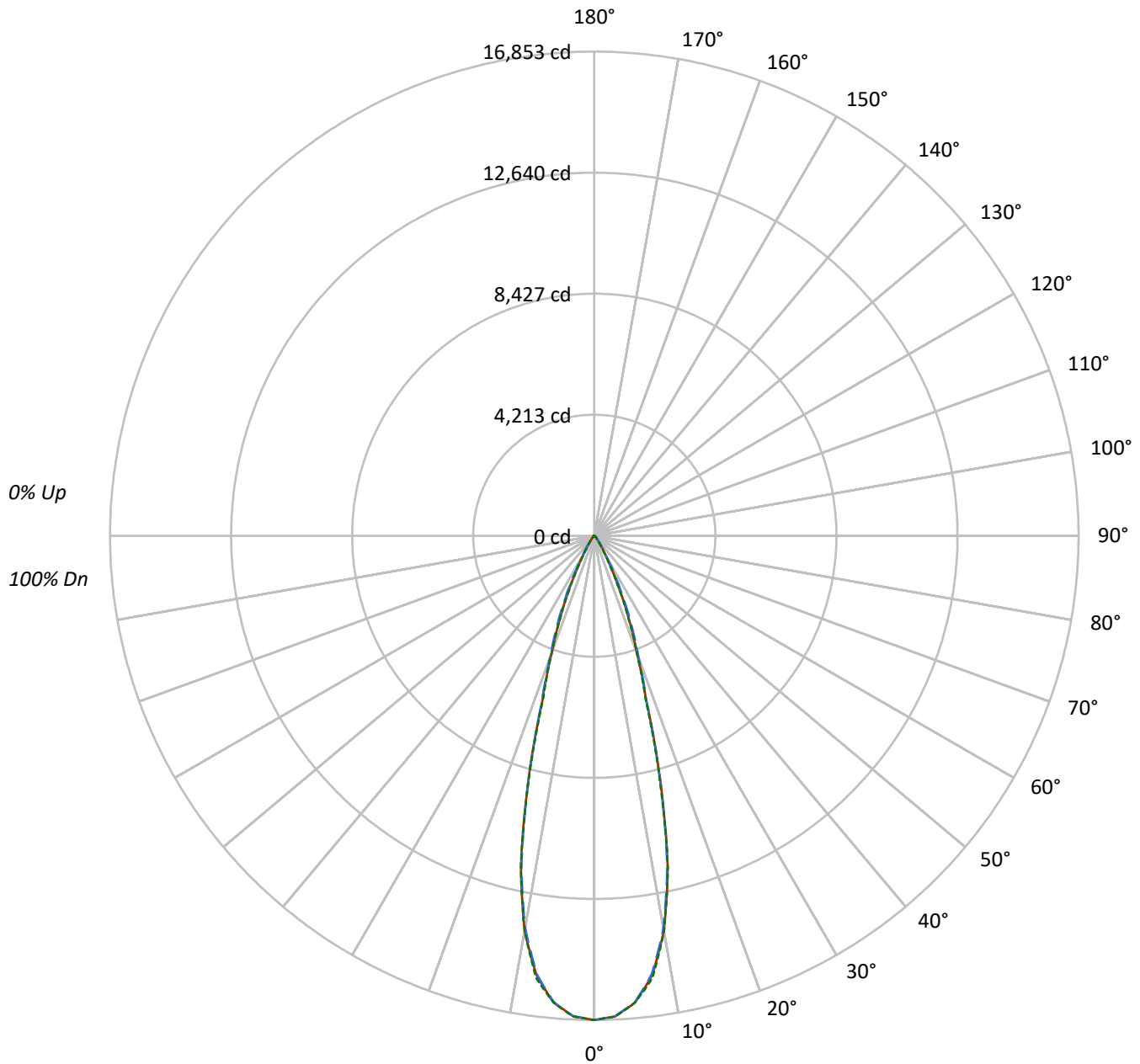


Downlight

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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
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°	1290009	1290009	1290009
5°	1252969	1251509	1253038
10°	1085263	1077607	1085007
15°	708081	704277	700735
20°	352093	365305	351620
25°	177358	200001	173727
30°	71008	77372	61869
35°	32938	31546	26444
40°	14219	15787	13389
45°	10035	12449	10121
50°	3453	9062	3644
55°	1988	3750	2095
60°	1393	1653	1393
65°	906	906	906
70°	559	380	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 12449 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1482.0	28.3
10°-20°	2386.8	45.5
20°-30°	1031.4	19.7
30°-40°	235.1	4.5
40°-50°	80.7	1.5
50°-60°	19.7	0.4
60°-70°	5.1	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°	4900.1	93.5
0°-40°	5135.2	98.0
0°-60°	5235.6	99.9
0°-90°	5241.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5241.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16853	16853	16853	16853	16853	
5°	16307	16291	16288	16322	16308	1483
15°	8936	8828	8888	8858	8843	2393
25°	2100	2180	2368	2124	2057	1005
35°	352	360	338	335	283	239
45°	93	115	115	115	94	66
55°	15	16	28	16	16	15
65°	5	5	5	5	5	5
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°	16853.3	16853.3	16853.3	16853.3	16853.3
2.5°	16741.5	16730.0	16736.6	16744.9	16748.2
5°	16307.1	16291.4	16288.1	16322.0	16308.0
7.5°	15430.9	15408.5	15374.6	15451.6	15523.6
10°	13963.0	13938.2	13864.5	13901.0	13959.7
12.5°	11796.0	11715.7	11714.0	11829.9	11814.2
15°	8935.5	8827.9	8887.5	8858.5	8842.8
17.5°	6008.9	5967.5	6046.9	6022.9	5919.5
20°	4322.5	4333.3	4484.7	4408.6	4316.7
22.5°	3154.2	3193.1	3372.6	3176.5	3104.5
25°	2100.0	2179.5	2368.1	2124.0	2057.0
27.5°	1291.6	1328.0	1519.2	1275.1	1238.7
30°	803.4	785.2	875.4	751.3	700.0
32.5°	527.1	503.9	532.9	478.3	436.9
35°	352.5	359.9	337.6	335.1	283.0
37.5°	220.1	253.2	223.4	238.3	182.0
40°	142.3	183.7	158.0	174.6	134.0
42.5°	116.7	141.5	129.9	138.2	119.2
45°	92.7	115.0	115.0	115.0	93.5
47.5°	51.3	77.0	98.5	78.6	54.6
50°	29.0	38.9	76.1	40.5	30.6
52.5°	19.9	22.3	52.1	23.2	20.7
55°	14.9	15.7	28.1	16.5	15.7
57.5°	11.6	12.4	14.9	12.4	11.6
60°	9.1	9.1	10.8	9.9	9.1
62.5°	6.6	6.6	7.4	6.6	6.6
65°	5.0	5.0	5.0	5.0	5.0
67.5°	2.5	3.3	3.3	3.3	3.3
70°	2.5	1.7	1.7	1.7	2.5
72.5°	1.7	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)