

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: P750716

Luminaire Tested: LD4D60D010-EU4DR3055659050-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750716
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-EU4DR3055659050-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5583.7 lumens
Efficiency: N/A
Efficacy: 86.7 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 (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

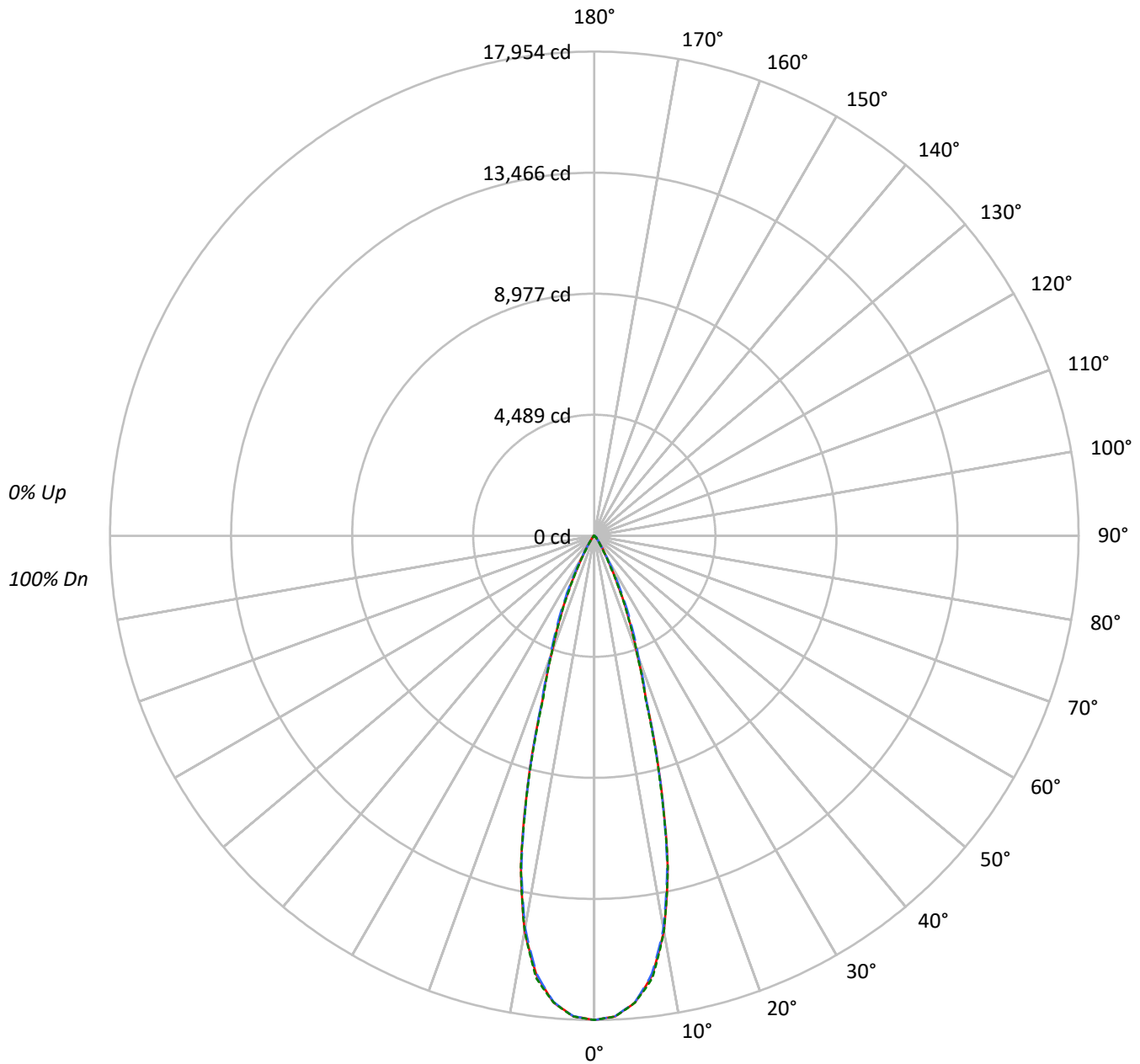


Downlight

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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°	1374283	1374283	1374283
5°	1334830	1333277	1334899
10°	1156171	1148018	1155891
15°	754343	750294	746522
20°	375096	389171	374599
25°	188946	213066	185078
30°	75648	82428	65908
35°	35088	33611	28173
40°	15148	16827	14269
45°	10684	13260	10782
50°	3680	9657	3882
55°	2122	4003	2229
60°	1485	1760	1485
65°	960	960	960
70°	582	403	582
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 13260 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1578.8	28.3
10°-20°	2542.7	45.5
20°-30°	1098.8	19.7
30°-40°	250.4	4.5
40°-50°	86.0	1.5
50°-60°	21.0	0.4
60°-70°	5.5	0.1
70°-80°	0.6	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°	5220.3	93.5
0°-40°	5470.7	98.0
0°-60°	5577.7	99.9
0°-90°	5583.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5583.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17954	17954	17954	17954	17954	
5°	17372	17356	17352	17388	17373	1580
15°	9519	9405	9468	9437	9421	2549
25°	2237	2322	2523	2263	2191	1071
35°	376	384	360	357	302	255
45°	99	122	122	122	100	70
55°	16	17	30	18	17	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°	17954.3	17954.3	17954.3	17954.3	17954.3
2.5°	17835.3	17823.0	17830.0	17838.9	17842.4
5°	17372.5	17355.8	17352.3	17388.4	17373.4
7.5°	16439.0	16415.2	16379.1	16461.1	16537.8
10°	14875.3	14848.8	14770.4	14809.2	14871.7
12.5°	12566.6	12481.1	12479.4	12602.8	12586.0
15°	9519.3	9404.7	9468.2	9437.3	9420.6
17.5°	6401.4	6357.4	6442.0	6416.4	6306.2
20°	4604.9	4616.4	4777.7	4696.6	4598.8
22.5°	3360.3	3401.7	3593.0	3384.1	3307.4
25°	2237.2	2321.9	2522.8	2262.8	2191.4
27.5°	1376.0	1414.8	1618.4	1358.4	1319.6
30°	855.9	836.5	932.6	800.4	745.7
32.5°	561.5	536.8	567.7	509.5	465.4
35°	375.5	383.5	359.7	357.0	301.5
37.5°	234.5	269.7	238.0	253.9	193.9
40°	151.6	195.7	168.4	186.0	142.8
42.5°	124.3	150.7	138.4	147.2	126.9
45°	98.7	122.5	122.5	122.5	99.6
47.5°	54.7	82.0	104.9	83.7	58.2
50°	30.9	41.4	81.1	43.2	32.6
52.5°	21.2	23.8	55.5	24.7	22.0
55°	15.9	16.7	30.0	17.6	16.7
57.5°	12.3	13.2	15.9	13.2	12.3
60°	9.7	9.7	11.5	10.6	9.7
62.5°	7.1	7.1	7.9	7.1	7.1
65°	5.3	5.3	5.3	5.3	5.3
67.5°	2.6	3.5	3.5	3.5	3.5
70°	2.6	1.8	1.8	1.8	2.6
72.5°	1.8	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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)