

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: P750694

Luminaire Tested: LD4D60D010-EU4DR3055659035-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750694
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-EU4DR3055659035-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5940.8 lumens
Efficiency: N/A
Efficacy: 92.2 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

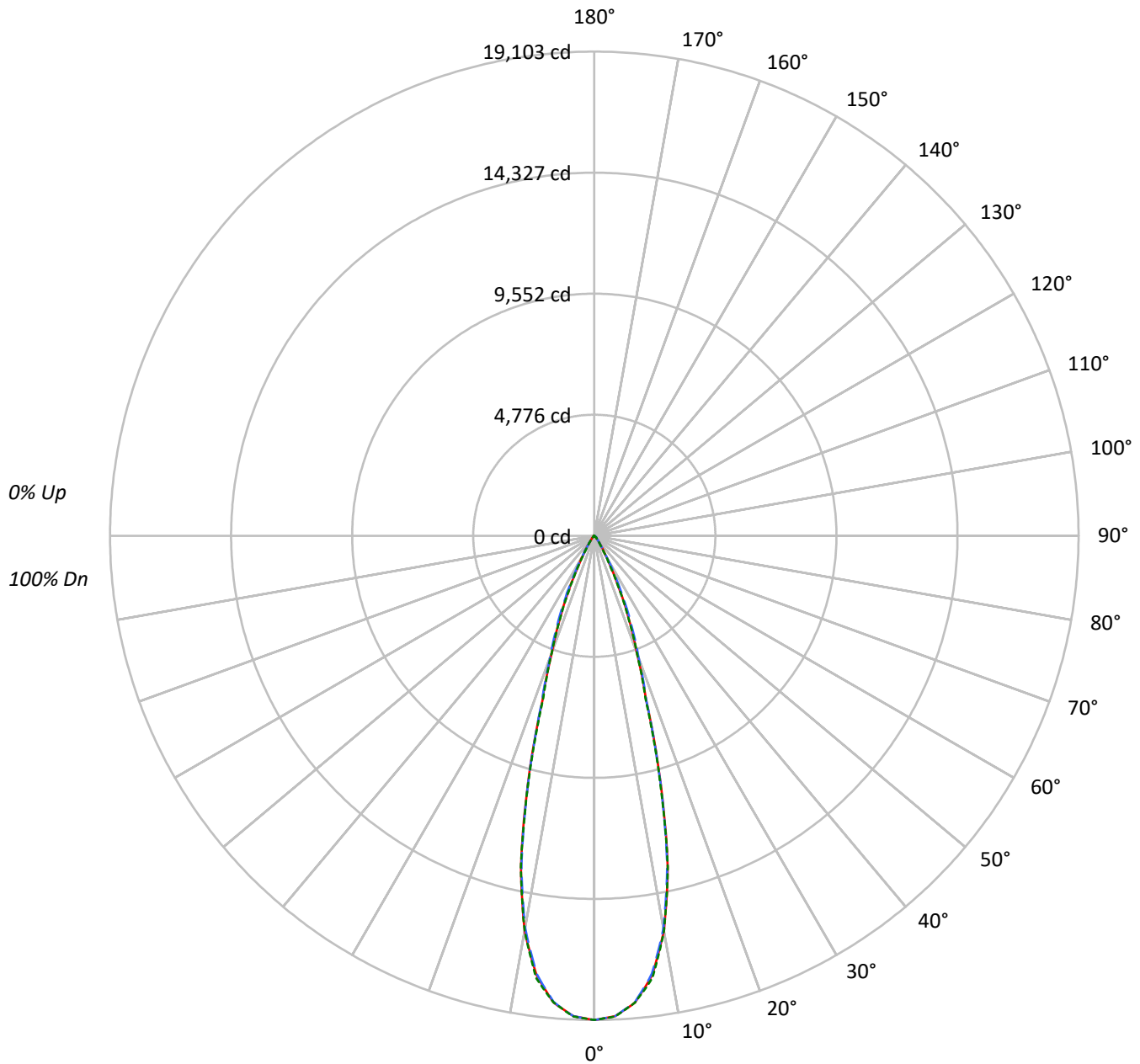


Downlight

TEST NUMBER: P750694

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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°	1462186	1462186	1462186
5°	1420209	1418550	1420279
10°	1230118	1221444	1229822
15°	802587	798276	794266
20°	399093	414064	398555
25°	201031	226698	196918
30°	80492	87704	70124
35°	37330	35760	29976
40°	16117	17896	15178
45°	11366	14116	11474
50°	3906	10277	4132
55°	2255	4257	2375
60°	1577	1868	1577
65°	1014	1014	1014
70°	627	425	627
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 14116 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1679.8	28.3
10°-20°	2705.3	45.5
20°-30°	1169.0	19.7
30°-40°	266.4	4.5
40°-50°	91.5	1.5
50°-60°	22.4	0.4
60°-70°	5.8	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°	5554.2	93.5
0°-40°	5820.6	98.0
0°-60°	5934.4	99.9
0°-90°	5940.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5940.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19103	19103	19103	19103	19103	
5°	18484	18466	18462	18501	18485	1681
15°	10128	10006	10074	10041	10023	2712
25°	2380	2470	2684	2408	2332	1139
35°	400	408	383	380	321	271
45°	105	130	130	130	106	75
55°	17	18	32	19	18	16
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°	19102.7	19102.7	19102.7	19102.7	19102.7
2.5°	18976.1	18962.9	18970.4	18979.8	18983.6
5°	18483.7	18465.9	18462.1	18500.6	18484.6
7.5°	17490.5	17465.1	17426.7	17513.9	17595.5
10°	15826.7	15798.5	15715.1	15756.3	15822.9
12.5°	13370.4	13279.4	13277.5	13408.8	13391.0
15°	10128.1	10006.2	10073.7	10040.9	10023.1
17.5°	6810.9	6764.0	6854.0	6826.8	6709.6
20°	4899.5	4911.7	5083.3	4997.0	4892.9
22.5°	3575.2	3619.3	3822.8	3600.5	3518.9
25°	2380.3	2470.4	2684.2	2407.5	2331.6
27.5°	1464.0	1505.3	1721.9	1445.3	1404.0
30°	910.7	890.0	992.3	851.6	793.4
32.5°	597.4	571.2	604.0	542.1	495.2
35°	399.5	408.0	382.7	379.8	320.8
37.5°	249.5	287.0	253.2	270.1	206.3
40°	161.3	208.2	179.1	197.9	151.9
42.5°	132.2	160.4	147.2	156.6	135.1
45°	105.0	130.4	130.4	130.4	106.0
47.5°	58.1	87.2	111.6	89.1	61.9
50°	32.8	44.1	86.3	46.0	34.7
52.5°	22.5	25.3	59.1	26.3	23.4
55°	16.9	17.8	31.9	18.8	17.8
57.5°	13.1	14.1	16.9	14.1	13.1
60°	10.3	10.3	12.2	11.3	10.3
62.5°	7.5	7.5	8.4	7.5	7.5
65°	5.6	5.6	5.6	5.6	5.6
67.5°	2.8	3.8	3.8	3.8	3.8
70°	2.8	1.9	1.9	1.9	2.8
72.5°	1.9	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



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Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)