

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: P749121

Luminaire Tested: LD4D50D010-EU4DR3040509030-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749121
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: LD4D50D010-EU4DR3040509030-4LBS1MW
Description: 4 INCH ROUND SHALLOW 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: 4728.7 lumens
Efficiency: N/A
Efficacy: 100.6 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): 47
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

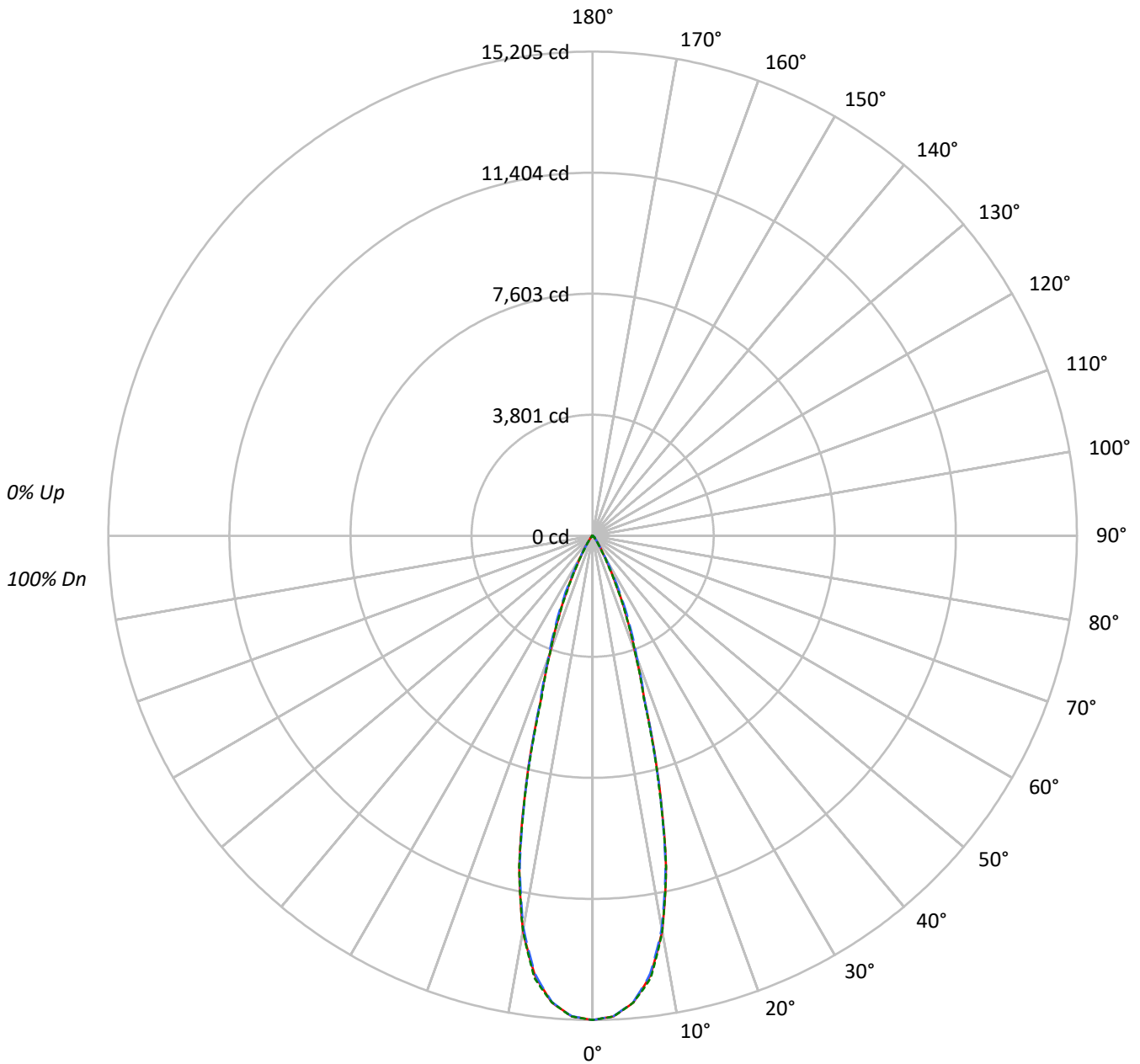


Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96								
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92								
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89								
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85								
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82								
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79								
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77								
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74								
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72								
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1163835	1163835	1163835
5°	1130423	1129102	1130485
10°	979115	972213	978890
15°	638830	635399	632197
20°	317661	329578	317230
25°	160011	180441	156734
30°	64070	69806	55815
35°	29715	28463	23856
40°	12830	14249	12080
45°	9050	11236	9136
50°	3108	8181	3287
55°	1788	3390	1895
60°	1255	1485	1255
65°	815	815	815
70°	492	336	492
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 11236 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1337.0	28.3
10°-20°	2153.3	45.5
20°-30°	930.5	19.7
30°-40°	212.1	4.5
40°-50°	72.8	1.5
50°-60°	17.8	0.4
60°-70°	4.6	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°	4420.9	93.5
0°-40°	4632.9	98.0
0°-60°	4723.6	99.9
0°-90°	4728.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4728.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15205	15205	15205	15205	15205	
5°	14712	14698	14695	14726	14713	1338
15°	8062	7964	8018	7992	7978	2159
25°	1895	1966	2136	1916	1856	907
35°	318	325	305	302	255	216
45°	84	104	104	104	84	59
55°	13	14	25	15	14	13
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15204.9	15204.9	15204.9	15204.9	15204.9
2.5°	15104.1	15093.7	15099.6	15107.1	15110.1
5°	14712.2	14698.0	14695.0	14725.6	14713.0
7.5°	13921.7	13901.5	13870.9	13940.3	14005.3
10°	12597.3	12574.9	12508.5	12541.4	12594.4
12.5°	10642.2	10569.8	10568.3	10672.8	10658.7
15°	8061.6	7964.5	8018.3	7992.1	7977.9
17.5°	5421.2	5383.8	5455.5	5433.8	5340.5
20°	3899.8	3909.5	4046.1	3977.4	3894.5
22.5°	2845.7	2880.8	3042.8	2865.8	2800.9
25°	1894.6	1966.3	2136.5	1916.3	1855.8
27.5°	1165.3	1198.1	1370.6	1150.4	1117.5
30°	724.9	708.4	789.8	677.8	631.5
32.5°	475.5	454.6	480.8	431.5	394.2
35°	318.0	324.7	304.6	302.3	255.3
37.5°	198.6	228.4	201.6	215.0	164.2
40°	128.4	165.7	142.6	157.5	120.9
42.5°	105.3	127.7	117.2	124.7	107.5
45°	83.6	103.8	103.8	103.8	84.4
47.5°	46.3	69.4	88.8	70.9	49.3
50°	26.1	35.1	68.7	36.6	27.6
52.5°	17.9	20.2	47.0	20.9	18.7
55°	13.4	14.2	25.4	14.9	14.2
57.5°	10.5	11.2	13.4	11.2	10.5
60°	8.2	8.2	9.7	9.0	8.2
62.5°	6.0	6.0	6.7	6.0	6.0
65°	4.5	4.5	4.5	4.5	4.5
67.5°	2.2	3.0	3.0	3.0	3.0
70°	2.2	1.5	1.5	1.5	2.2
72.5°	1.5	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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

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

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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