

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: P746030

Luminaire Tested: LD4D30D010-EU4DR3020359050-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746030
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: LD4D30D010-EU4DR3020359050-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2560.4 lumens
Efficiency: N/A
Efficacy: 88.3 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): 29
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

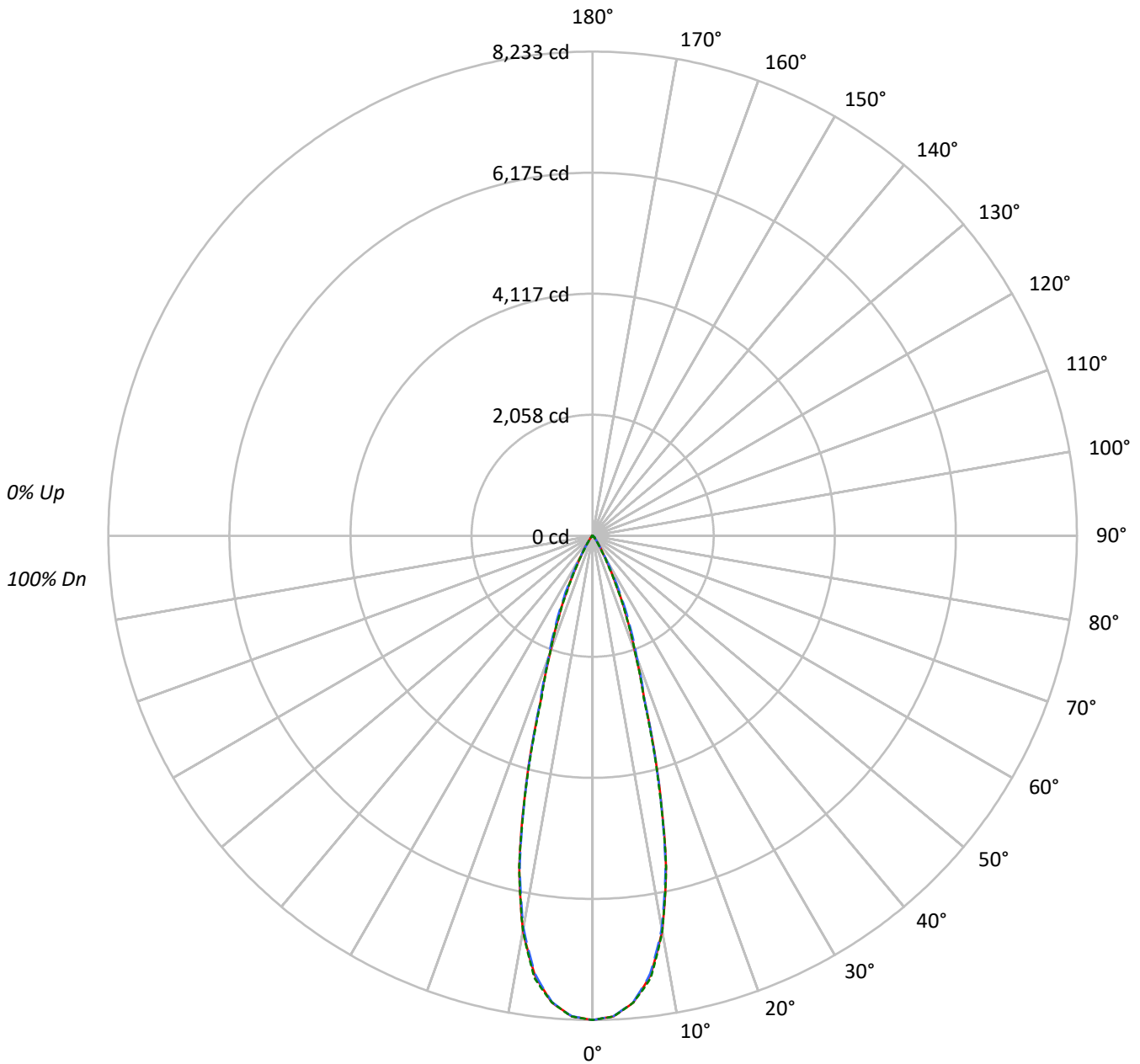


Downlight



TEST NUMBER: P746030
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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									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						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	630182	630182	630182
5°	612082	611375	612120
10°	530157	526418	530032
15°	345906	344044	342316
20°	172002	178453	171766
25°	86644	97699	84862
30°	34691	37802	30219
35°	16091	15409	12923
40°	6944	7714	6545
45°	4904	6084	4947
50°	1691	4430	1786
55°	974	1842	1028
60°	689	811	689
65°	435	435	435
70°	269	179	269
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6084 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	724.0	28.3
10°-20°	1165.9	45.5
20°-30°	503.8	19.7
30°-40°	114.8	4.5
40°-50°	39.4	1.5
50°-60°	9.6	0.4
60°-70°	2.5	0.1
70°-80°	0.3	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°	2393.7	93.5
0°-40°	2508.6	98.0
0°-60°	2557.7	99.9
0°-90°	2560.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2560.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8233	8233	8233	8233	8233	
5°	7966	7958	7957	7973	7967	725
15°	4365	4312	4342	4327	4320	1169
25°	1026	1065	1157	1038	1005	491
35°	172	176	165	164	138	117
45°	45	56	56	56	46	32
55°	7	8	14	8	8	7
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
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°	8233.0	8233.0	8233.0	8233.0	8233.0
2.5°	8178.4	8172.7	8176.0	8180.0	8181.6
5°	7966.1	7958.5	7956.9	7973.4	7966.6
7.5°	7538.1	7527.2	7510.6	7548.2	7583.3
10°	6821.0	6808.9	6772.9	6790.7	6819.4
12.5°	5762.4	5723.2	5722.4	5779.0	5771.3
15°	4365.1	4312.5	4341.6	4327.4	4319.8
17.5°	2935.3	2915.2	2954.0	2942.2	2891.7
20°	2111.6	2116.8	2190.8	2153.6	2108.7
22.5°	1540.8	1559.9	1647.6	1551.8	1516.6
25°	1025.9	1064.7	1156.8	1037.6	1004.8
27.5°	631.0	648.8	742.1	622.9	605.1
30°	392.5	383.6	427.7	367.0	341.9
32.5°	257.5	246.1	260.3	233.6	213.4
35°	172.2	175.8	164.9	163.7	138.3
37.5°	107.5	123.7	109.1	116.4	88.9
40°	69.5	89.7	77.2	85.3	65.5
42.5°	57.0	69.1	63.5	67.5	58.2
45°	45.3	56.2	56.2	56.2	45.7
47.5°	25.0	37.6	48.1	38.4	26.7
50°	14.2	19.0	37.2	19.8	15.0
52.5°	9.7	10.9	25.4	11.3	10.1
55°	7.3	7.7	13.8	8.1	7.7
57.5°	5.7	6.1	7.3	6.1	5.7
60°	4.5	4.5	5.3	4.9	4.5
62.5°	3.2	3.2	3.6	3.2	3.2
65°	2.4	2.4	2.4	2.4	2.4
67.5°	1.2	1.6	1.6	1.6	1.6
70°	1.2	0.8	0.8	0.8	1.2
72.5°	0.8	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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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