

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: P749917

Luminaire Tested: LD4D55D010-EU4DR3055659040-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749917
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: LD4D55D010-EU4DR3055659040-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

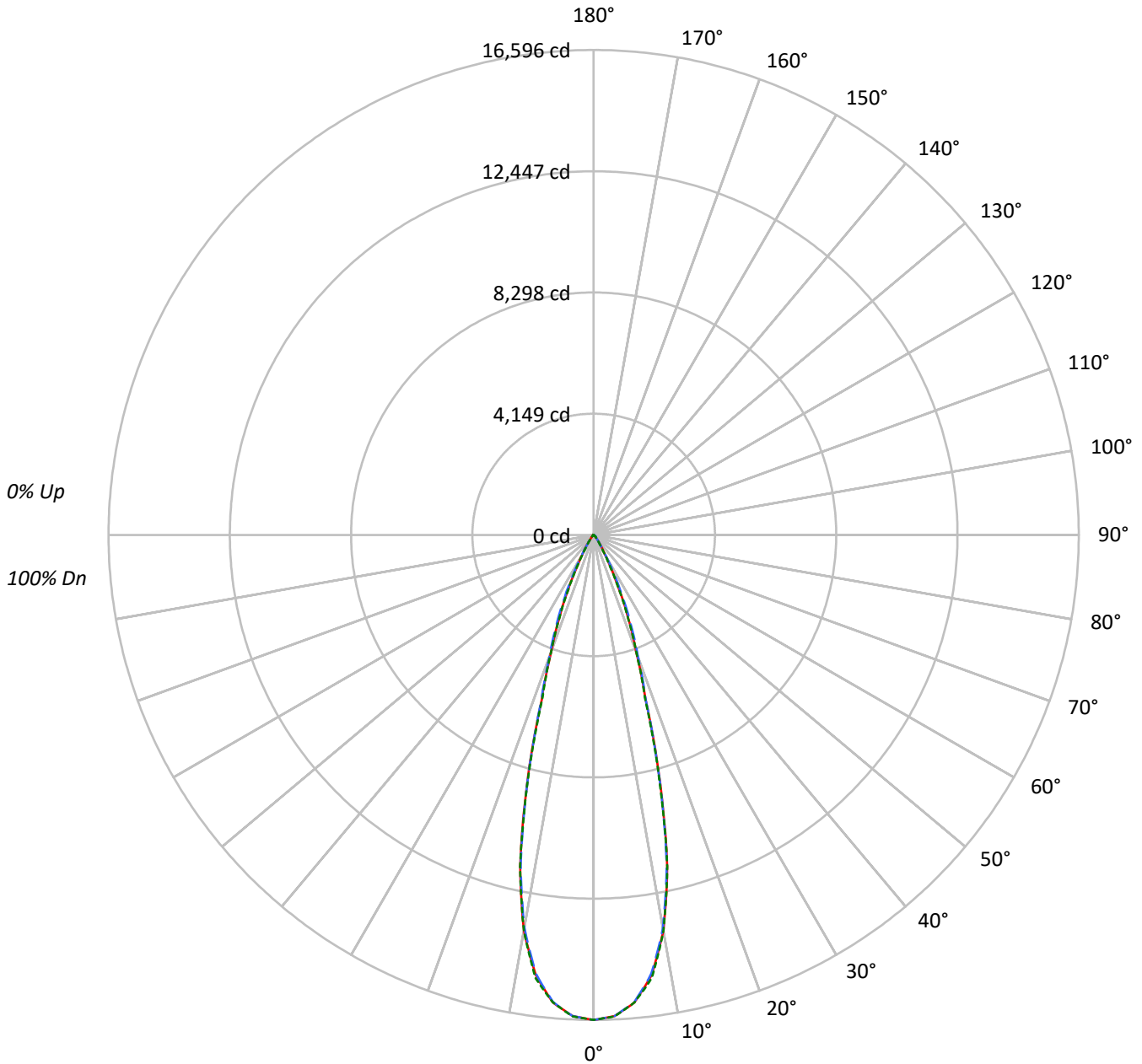
Lumens per Lamp: N/A
Luminaire Lumens: 5161.2 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 58.2
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



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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°	1270284	1270284	1270284
5°	1233821	1232377	1233883
10°	1068677	1061137	1068420
15°	697256	693516	690029
20°	346717	359725	346252
25°	174647	196944	171075
30°	69930	76188	60924
35°	32434	31060	26042
40°	13999	15548	13189
45°	9883	12265	9970
50°	3394	8931	3584
55°	1962	3697	2068
60°	1378	1623	1378
65°	887	887	887
70°	537	358	537
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12265 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1459.3	28.3
10°-20°	2350.3	45.5
20°-30°	1015.6	19.7
30°-40°	231.5	4.5
40°-50°	79.5	1.5
50°-60°	19.4	0.4
60°-70°	5.0	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°	4825.2	93.5
0°-40°	5056.7	98.0
0°-60°	5155.6	99.9
0°-90°	5161.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5161.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16596	16596	16596	16596	16596	
5°	16058	16042	16039	16072	16059	1461
15°	8799	8693	8752	8723	8708	2356
25°	2068	2146	2332	2092	2026	990
35°	347	354	332	330	279	235
45°	91	113	113	113	92	65
55°	15	16	28	16	16	14
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16595.6	16595.6	16595.6	16595.6	16595.6
2.5°	16485.6	16474.2	16480.8	16488.9	16492.2
5°	16057.9	16042.4	16039.1	16072.5	16058.7
7.5°	15195.0	15173.0	15139.6	15215.4	15286.3
10°	13749.6	13725.1	13652.6	13688.5	13746.3
12.5°	11615.6	11536.6	11535.0	11649.1	11633.6
15°	8798.9	8693.0	8751.7	8723.1	8707.7
17.5°	5917.0	5876.3	5954.5	5930.9	5829.0
20°	4256.5	4267.1	4416.2	4341.2	4250.8
22.5°	3106.0	3144.3	3321.1	3128.0	3057.1
25°	2067.9	2146.2	2331.9	2091.6	2025.6
27.5°	1271.9	1307.7	1496.0	1255.6	1219.7
30°	791.2	773.2	862.0	739.8	689.3
32.5°	519.0	496.2	524.7	470.9	430.2
35°	347.1	354.4	332.4	330.0	278.7
37.5°	216.7	249.3	220.0	234.7	179.3
40°	140.1	180.9	155.6	171.9	132.0
42.5°	114.9	139.3	127.9	136.1	117.3
45°	91.3	113.3	113.3	113.3	92.1
47.5°	50.5	75.8	97.0	77.4	53.8
50°	28.5	38.3	75.0	39.9	30.1
52.5°	19.6	22.0	51.3	22.8	20.4
55°	14.7	15.5	27.7	16.3	15.5
57.5°	11.4	12.2	14.7	12.2	11.4
60°	9.0	9.0	10.6	9.8	9.0
62.5°	6.5	6.5	7.3	6.5	6.5
65°	4.9	4.9	4.9	4.9	4.9
67.5°	2.4	3.3	3.3	3.3	3.3
70°	2.4	1.6	1.6	1.6	2.4
72.5°	1.6	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

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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