

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: P743141

Luminaire Tested: LD4D15D010-EU4DR300215IC9030-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P743141
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: LD4D15D010-EU4DR300215IC9030-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF 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: 1102.5 lumens
Efficiency: N/A
Efficacy: 69.8 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): 15.8
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

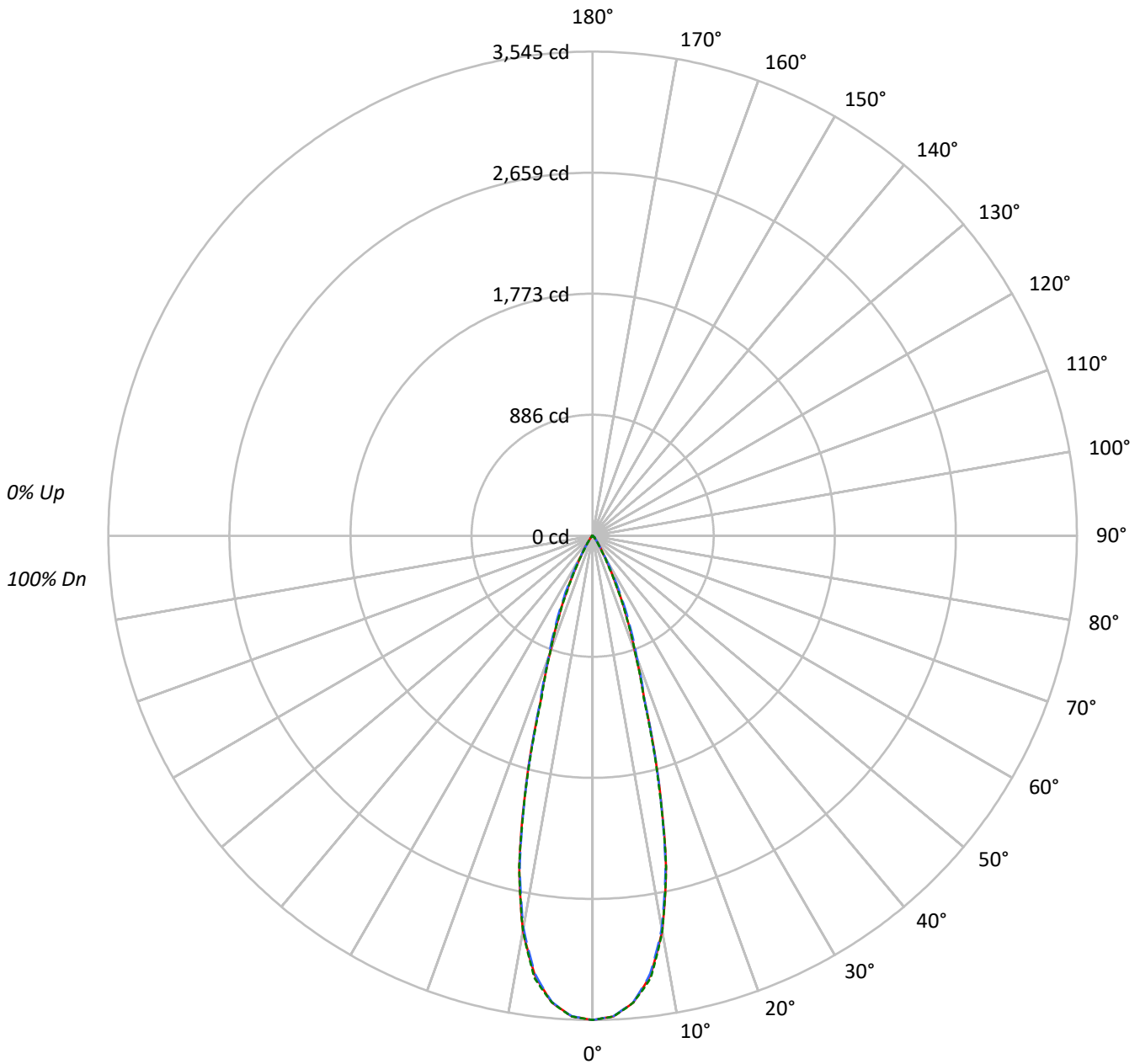


Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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																			
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	87	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°	271354	271354	271354
5°	263562	263255	263577
10°	228284	226675	228229
15°	148946	148146	147401
20°	74068	76845	73962
25°	37304	42068	36544
30°	14937	16272	13010
35°	6924	6634	5560
40°	2998	3317	2818
45°	2111	2620	2132
50°	726	1905	762
55°	427	787	440
60°	291	337	291
65°	181	181	181
70°	112	67	112
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 2620 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.7	28.3
10°-20°	502.1	45.5
20°-30°	216.9	19.7
30°-40°	49.4	4.5
40°-50°	17.0	1.5
50°-60°	4.2	0.4
60°-70°	1.1	0.1
70°-80°	0.1	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°	1030.7	93.5
0°-40°	1080.2	98.0
0°-60°	1101.3	99.9
0°-90°	1102.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1102.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3545	3545	3545	3545	3545	
5°	3430	3427	3426	3433	3430	312
15°	1880	1857	1870	1863	1860	503
25°	442	458	498	447	433	211
35°	74	76	71	70	60	50
45°	20	24	24	24	20	14
55°	3	3	6	4	3	3
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
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°	3545.1	3545.1	3545.1	3545.1	3545.1
2.5°	3521.6	3519.1	3520.6	3522.3	3523.0
5°	3430.2	3426.9	3426.2	3433.4	3430.4
7.5°	3245.9	3241.2	3234.1	3250.2	3265.4
10°	2937.1	2931.9	2916.4	2924.1	2936.4
12.5°	2481.3	2464.4	2464.0	2488.4	2485.1
15°	1879.6	1856.9	1869.5	1863.4	1860.1
17.5°	1264.0	1255.3	1272.0	1266.9	1245.1
20°	909.3	911.5	943.4	927.3	908.0
22.5°	663.5	671.7	709.4	668.2	653.0
25°	441.7	458.5	498.1	446.8	432.7
27.5°	271.7	279.4	319.5	268.2	260.6
30°	169.0	165.2	184.1	158.0	147.2
32.5°	110.9	106.0	112.1	100.6	91.9
35°	74.1	75.7	71.0	70.5	59.5
37.5°	46.3	53.3	47.0	50.1	38.3
40°	30.0	38.6	33.2	36.7	28.2
42.5°	24.5	29.7	27.3	29.0	25.0
45°	19.5	24.2	24.2	24.2	19.7
47.5°	10.8	16.2	20.7	16.6	11.5
50°	6.1	8.2	16.0	8.5	6.4
52.5°	4.2	4.7	10.9	4.9	4.4
55°	3.2	3.3	5.9	3.5	3.3
57.5°	2.5	2.6	3.2	2.6	2.5
60°	1.9	1.9	2.2	2.1	1.9
62.5°	1.4	1.4	1.5	1.4	1.4
65°	1.0	1.0	1.0	1.0	1.0
67.5°	0.5	0.7	0.7	0.7	0.7
70°	0.5	0.3	0.3	0.3	0.5
72.5°	0.3	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	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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