

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: P745067

Luminaire Tested: LD4D25D010-EU4DR3020359030-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745067
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: LD4D25D010-EU4DR3020359030-4LBSQW1MW
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: 1956.3 lumens
Efficiency: N/A
Efficacy: 77.9 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): 25.1
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



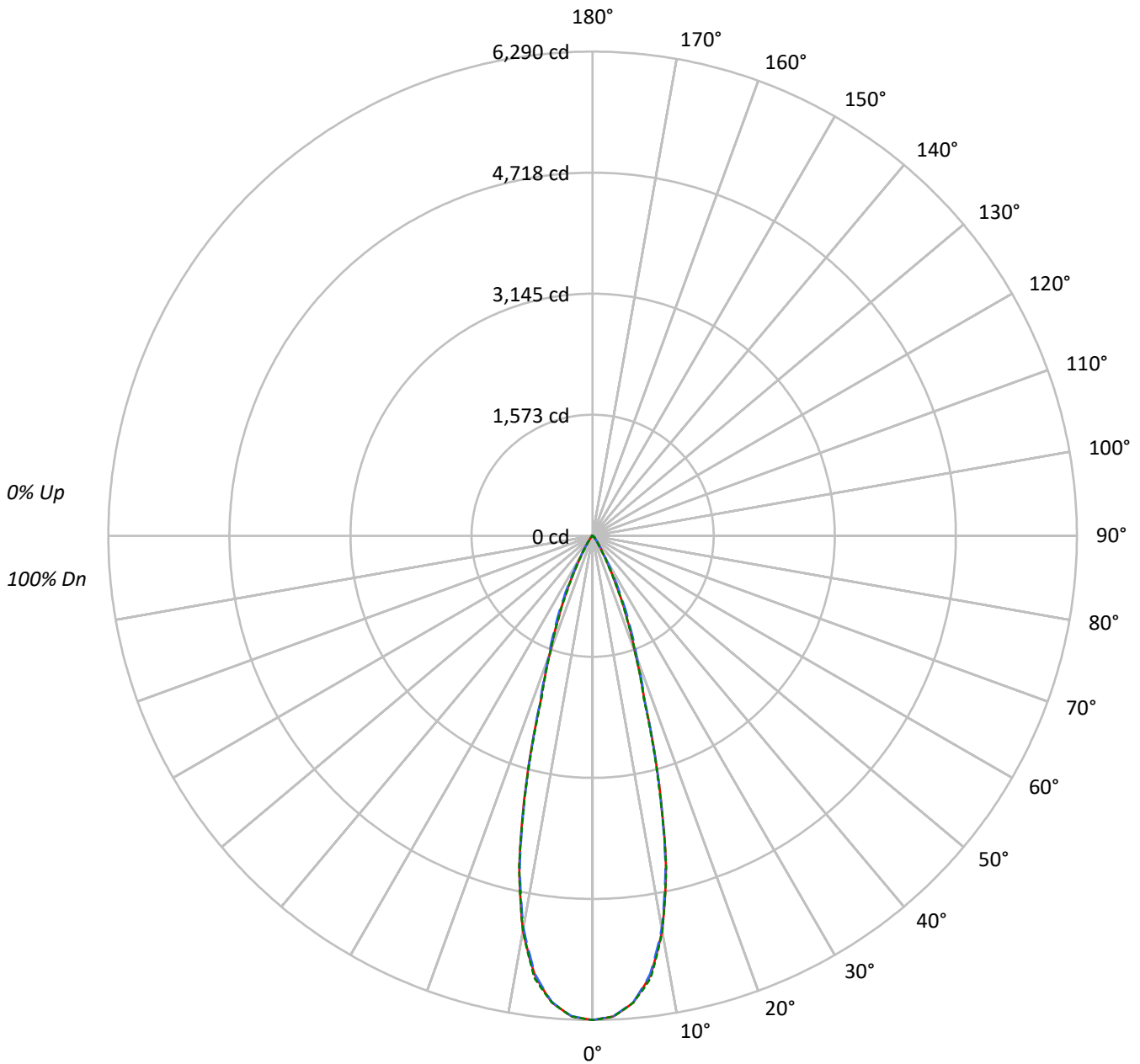
Downlight



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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					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°	481496	481496	481496
5°	467669	467123	467692
10°	405075	402215	404982
15°	264285	262875	261551
20°	131421	136349	131242
25°	66205	74651	64846
30°	26507	28884	23095
35°	12288	11774	9867
40°	5306	5895	4996
45°	3745	4644	3778
50°	1286	3382	1358
55°	747	1401	774
60°	520	612	520
65°	326	326	326
70°	201	134	201
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4644 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.2	28.3
10°-20°	890.9	45.5
20°-30°	385.0	19.7
30°-40°	87.7	4.5
40°-50°	30.1	1.5
50°-60°	7.4	0.4
60°-70°	1.9	0.1
70°-80°	0.2	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°	1829.0	93.5
0°-40°	1916.7	98.0
0°-60°	1954.2	99.9
0°-90°	1956.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1956.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6290	6290	6290	6290	6290	
5°	6087	6081	6080	6092	6087	554
15°	3335	3295	3317	3306	3301	893
25°	784	814	884	793	768	375
35°	132	134	126	125	106	89
45°	35	43	43	43	35	25
55°	6	6	10	6	6	5
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6290.5	6290.5	6290.5	6290.5	6290.5
2.5°	6248.8	6244.4	6246.9	6250.0	6251.2
5°	6086.6	6080.8	6079.5	6092.2	6086.9
7.5°	5759.6	5751.2	5738.6	5767.3	5794.1
10°	5211.7	5202.4	5174.9	5188.5	5210.5
12.5°	4402.8	4372.9	4372.2	4415.5	4409.6
15°	3335.1	3295.0	3317.3	3306.4	3300.6
17.5°	2242.8	2227.3	2257.0	2248.0	2209.5
20°	1613.4	1617.4	1673.9	1645.5	1611.2
22.5°	1177.3	1191.8	1258.8	1185.7	1158.8
25°	783.9	813.5	883.9	792.8	767.8
27.5°	482.1	495.7	567.0	476.0	462.3
30°	299.9	293.1	326.8	280.4	261.3
32.5°	196.8	188.1	198.9	178.5	163.1
35°	131.5	134.4	126.0	125.1	105.6
37.5°	82.2	94.5	83.4	88.9	68.0
40°	53.1	68.6	59.0	65.1	50.0
42.5°	43.5	52.8	48.5	51.6	44.5
45°	34.6	42.9	42.9	42.9	34.9
47.5°	19.1	28.7	36.7	29.3	20.4
50°	10.8	14.5	28.4	15.1	11.4
52.5°	7.4	8.4	19.5	8.7	7.7
55°	5.6	5.8	10.5	6.2	5.8
57.5°	4.3	4.6	5.6	4.6	4.3
60°	3.4	3.4	4.0	3.7	3.4
62.5°	2.5	2.5	2.8	2.5	2.5
65°	1.8	1.8	1.8	1.8	1.8
67.5°	0.9	1.3	1.3	1.3	1.3
70°	0.9	0.6	0.6	0.6	0.9
72.5°	0.6	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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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