

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: P746783

Luminaire Tested: LD4D35BD010-EU4DR3020359030-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746783
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: LD4D35BD010-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: 2623.7 lumens
Efficiency: N/A
Efficacy: 85.2 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

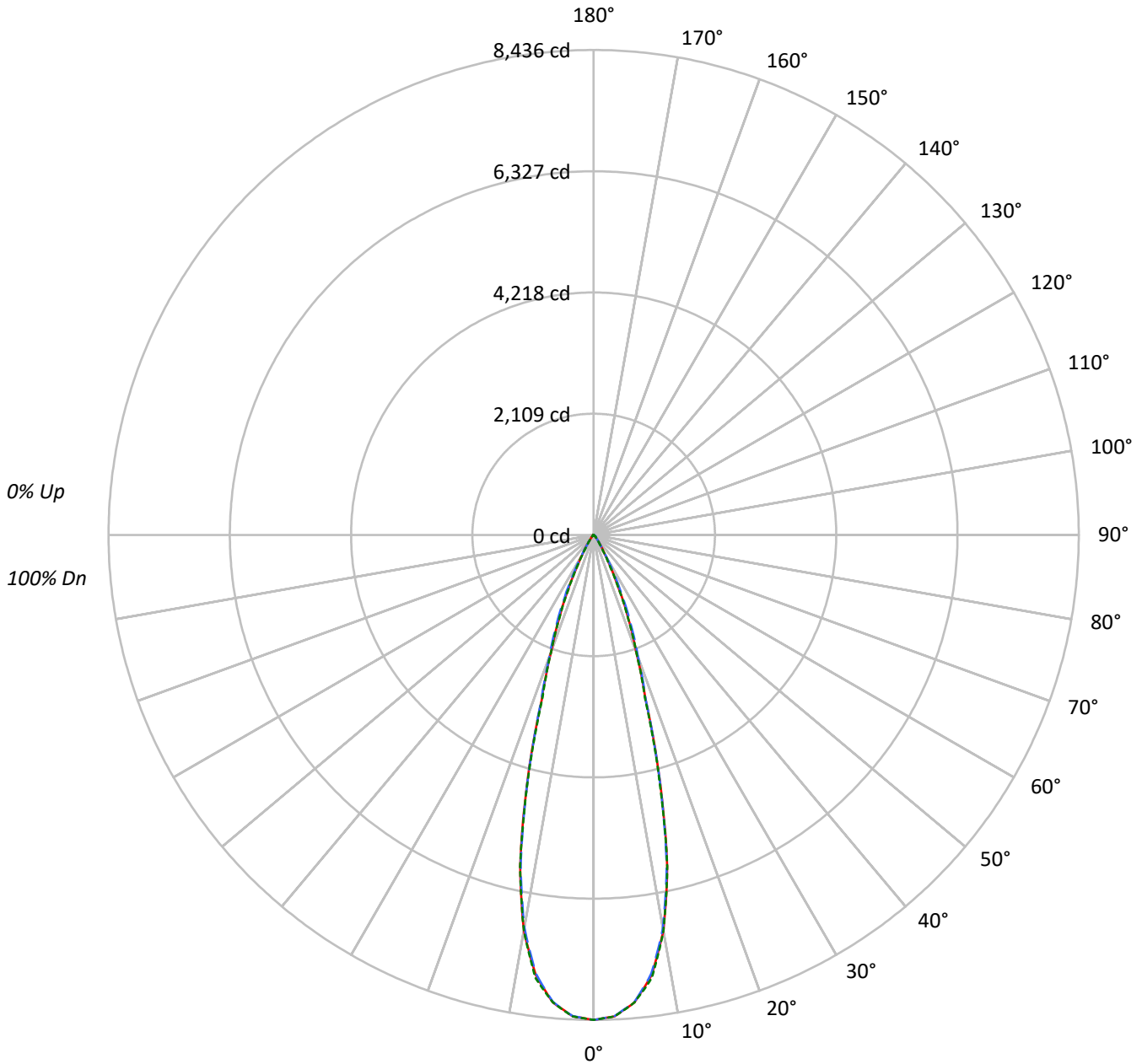
Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	645743	645743	645743
5°	627210	626473	627241
10°	543253	539422	543129
15°	354448	352547	350772
20°	176254	182860	176018
25°	88780	100114	86965
30°	35548	38730	30970
35°	16483	15792	13241
40°	7114	7904	6705
45°	5023	6235	5066
50°	1727	4537	1822
55°	1001	1882	1054
60°	704	827	704
65°	453	453	453
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: 6235 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	741.8	28.3
10°-20°	1194.8	45.5
20°-30°	516.3	19.7
30°-40°	117.7	4.5
40°-50°	40.4	1.5
50°-60°	9.9	0.4
60°-70°	2.6	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°	2452.9	93.5
0°-40°	2570.5	98.0
0°-60°	2620.8	99.9
0°-90°	2623.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2623.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8436	8436	8436	8436	8436	
5°	8163	8155	8153	8170	8163	742
15°	4473	4419	4449	4434	4426	1198
25°	1051	1091	1185	1063	1030	503
35°	176	180	169	168	142	120
45°	46	58	58	58	47	33
55°	8	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°	8436.3	8436.3	8436.3	8436.3	8436.3
2.5°	8380.4	8374.6	8377.9	8382.1	8383.7
5°	8163.0	8155.1	8153.4	8170.4	8163.4
7.5°	7724.3	7713.1	7696.2	7734.7	7770.7
10°	6989.5	6977.1	6940.2	6958.5	6987.9
12.5°	5904.8	5864.6	5863.8	5921.7	5913.9
15°	4472.9	4419.0	4448.9	4434.4	4426.5
17.5°	3007.9	2987.2	3026.9	3014.9	2963.2
20°	2163.8	2169.1	2244.9	2206.8	2160.9
22.5°	1578.9	1598.4	1688.3	1590.1	1554.1
25°	1051.2	1091.0	1185.4	1063.2	1029.7
27.5°	646.6	664.8	760.5	638.3	620.0
30°	402.2	393.1	438.2	376.1	350.4
32.5°	263.8	252.2	266.7	239.4	218.7
35°	176.4	180.2	169.0	167.7	141.7
37.5°	110.2	126.7	111.8	119.3	91.1
40°	71.2	92.0	79.1	87.4	67.1
42.5°	58.4	70.8	65.0	69.2	59.6
45°	46.4	57.6	57.6	57.6	46.8
47.5°	25.7	38.5	49.3	39.3	27.3
50°	14.5	19.5	38.1	20.3	15.3
52.5°	9.9	11.2	26.1	11.6	10.4
55°	7.5	7.9	14.1	8.3	7.9
57.5°	5.8	6.2	7.5	6.2	5.8
60°	4.6	4.6	5.4	5.0	4.6
62.5°	3.3	3.3	3.7	3.3	3.3
65°	2.5	2.5	2.5	2.5	2.5
67.5°	1.2	1.7	1.7	1.7	1.7
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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