

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: P746796

Luminaire Tested: LD4D35BD010-EU4DR3020359035-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746796
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-EU4DR3020359035-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

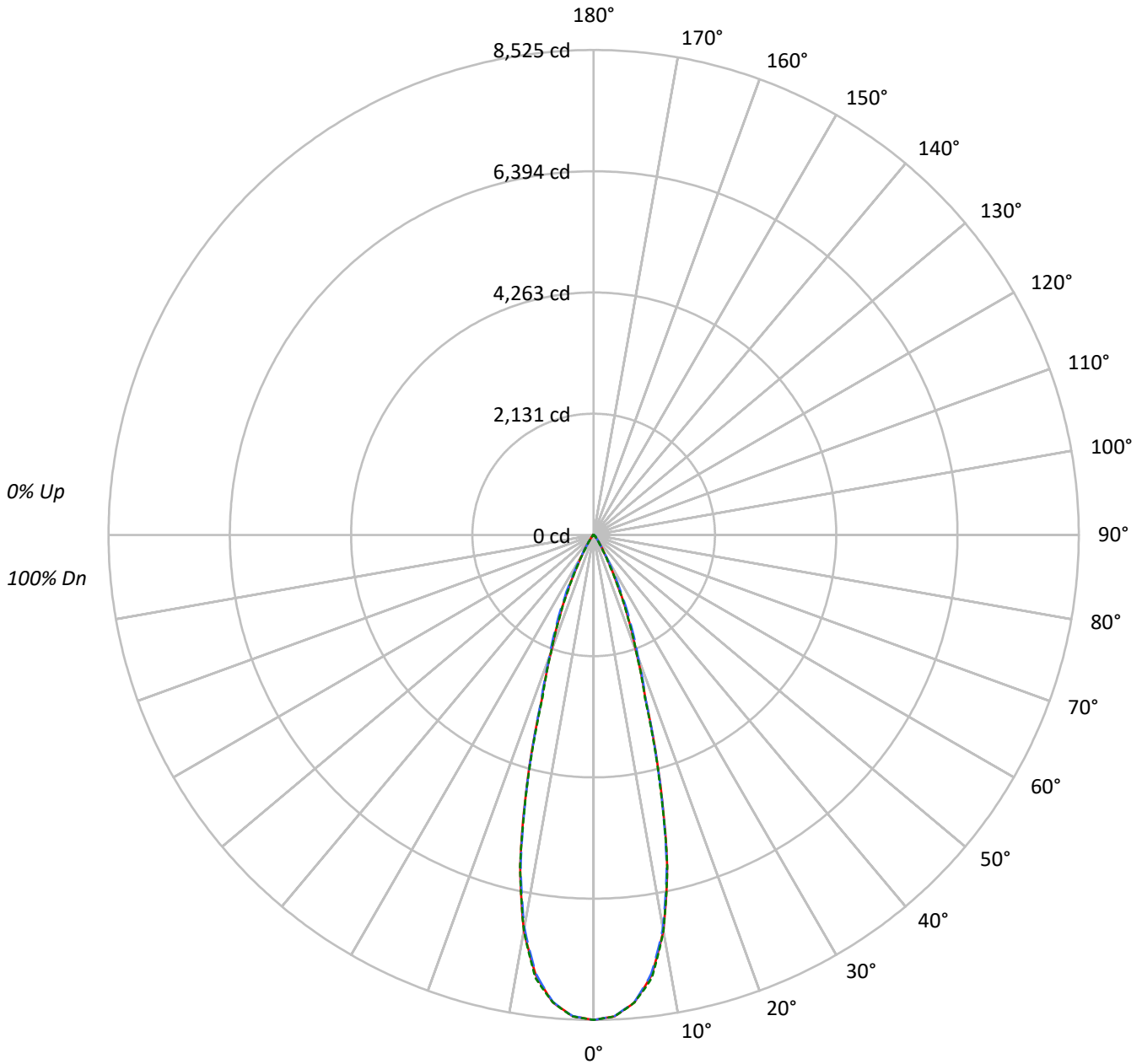
Lumens per Lamp: N/A
Luminaire Lumens: 2651.3 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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°	652548	652548	652548
5°	633811	633073	633849
10°	548982	545111	548849
15°	358181	356255	354464
20°	178103	184791	177867
25°	89718	101170	87877
30°	35920	39137	31297
35°	16661	15960	13372
40°	7194	7984	6775
45°	5077	6300	5120
50°	1739	4585	1846
55°	1001	1895	1068
60°	704	827	704
65°	453	453	453
70°	291	179	291
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6300 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	749.7	28.3
10°-20°	1207.3	45.5
20°-30°	521.7	19.7
30°-40°	118.9	4.5
40°-50°	40.8	1.5
50°-60°	10.0	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°	2478.7	93.5
0°-40°	2597.6	98.0
0°-60°	2648.4	99.9
0°-90°	2651.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2651.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8525	8525	8525	8525	8525	
5°	8249	8241	8239	8256	8249	750
15°	4520	4466	4496	4481	4473	1210
25°	1062	1102	1198	1074	1040	508
35°	178	182	171	170	143	121
45°	47	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8525.2	8525.2	8525.2	8525.2	8525.2
2.5°	8468.7	8462.8	8466.2	8470.4	8472.0
5°	8248.9	8241.0	8239.3	8256.5	8249.4
7.5°	7805.7	7794.4	7777.2	7816.1	7852.6
10°	7063.2	7050.6	7013.4	7031.8	7061.5
12.5°	5967.0	5926.4	5925.5	5984.1	5976.2
15°	4520.0	4465.6	4495.7	4481.1	4473.1
17.5°	3039.6	3018.6	3058.8	3046.7	2994.4
20°	2186.5	2192.0	2268.6	2230.1	2183.6
22.5°	1595.5	1615.2	1706.0	1606.8	1570.4
25°	1062.3	1102.5	1197.9	1074.4	1040.5
27.5°	653.4	671.8	768.5	645.0	626.6
30°	406.4	397.2	442.8	380.1	354.1
32.5°	266.6	254.9	269.6	241.9	221.0
35°	178.3	182.1	170.8	169.5	143.1
37.5°	111.3	128.1	113.0	120.5	92.1
40°	72.0	92.9	79.9	88.3	67.8
42.5°	59.0	71.6	65.7	69.9	60.3
45°	46.9	58.2	58.2	58.2	47.3
47.5°	26.0	38.9	49.8	39.8	27.6
50°	14.6	19.7	38.5	20.5	15.5
52.5°	10.0	11.3	26.4	11.7	10.5
55°	7.5	8.0	14.2	8.4	8.0
57.5°	5.9	6.3	7.5	6.3	5.9
60°	4.6	4.6	5.4	5.0	4.6
62.5°	3.3	3.3	3.8	3.3	3.3
65°	2.5	2.5	2.5	2.5	2.5
67.5°	1.3	1.7	1.7	1.7	1.7
70°	1.3	0.8	0.8	0.8	1.3
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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