

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P746770

Luminaire Tested: LD4D35BD010-EU4DR3020359027-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746770
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-EU4DR3020359027-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2546.7 lumens
Efficiency: N/A
Efficacy: 82.7 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

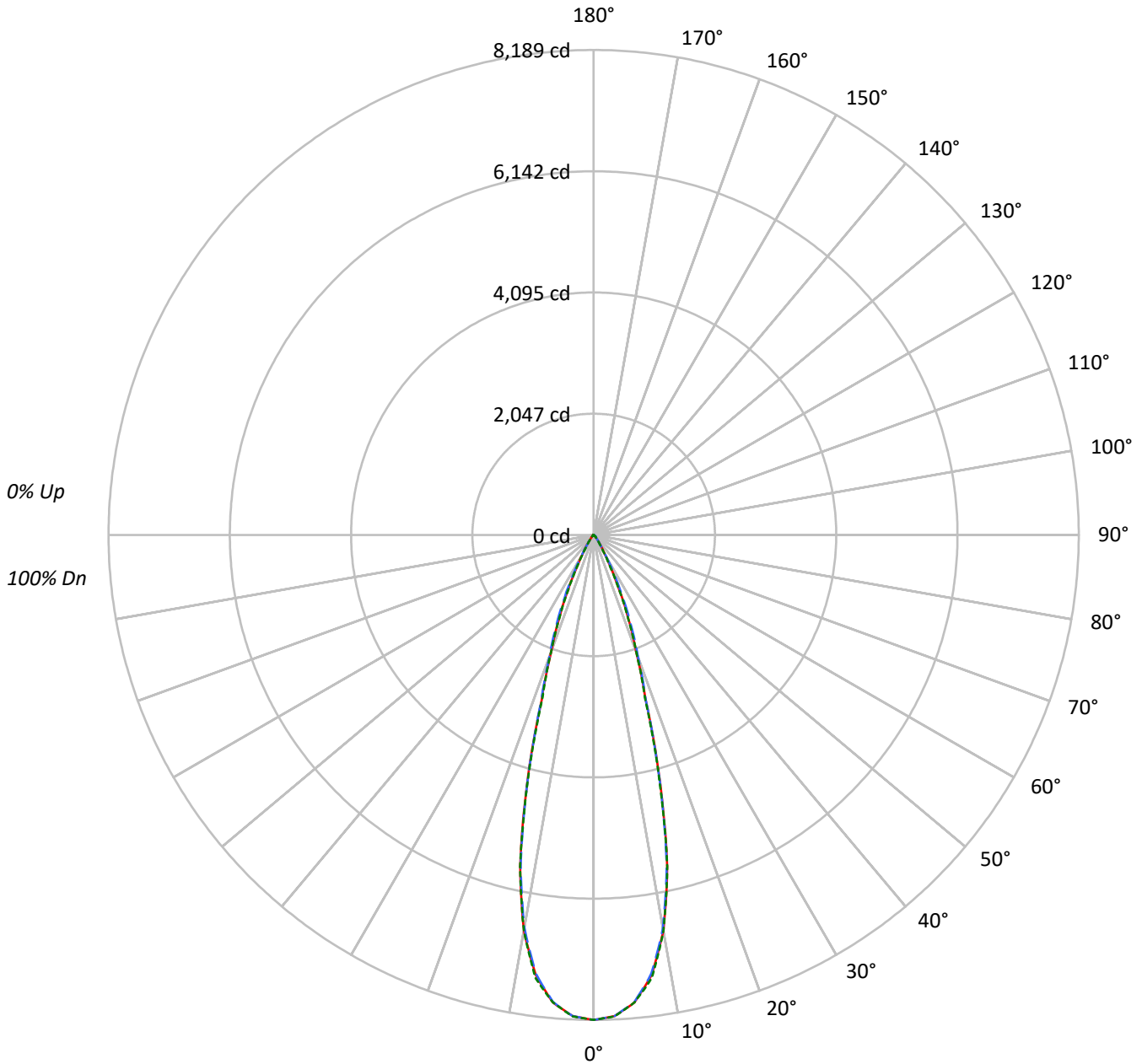
Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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									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	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°	626806	626806	626806
5°	608808	608101	608839
10°	527320	523605	527195
15°	344052	342205	340486
20°	171082	177500	170853
25°	86179	97184	84414
30°	34505	37599	30060
35°	16007	15325	12848
40°	6914	7674	6505
45°	4871	6051	4914
50°	1679	4406	1774
55°	961	1828	1014
60°	674	796	674
65°	435	435	435
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: 6051 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	720.1	28.3
10°-20°	1159.7	45.5
20°-30°	501.1	19.7
30°-40°	114.2	4.5
40°-50°	39.2	1.5
50°-60°	9.6	0.4
60°-70°	2.5	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°	2380.9	93.5
0°-40°	2495.2	98.0
0°-60°	2543.9	99.9
0°-90°	2546.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2546.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8189	8189	8189	8189	8189	
5°	7924	7916	7914	7931	7924	721
15°	4342	4289	4318	4304	4297	1163
25°	1020	1059	1151	1032	1000	488
35°	171	175	164	163	138	116
45°	45	56	56	56	45	32
55°	7	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°	8188.9	8188.9	8188.9	8188.9	8188.9
2.5°	8134.6	8129.0	8132.2	8136.2	8137.8
5°	7923.5	7915.9	7914.3	7930.7	7923.9
7.5°	7497.7	7486.9	7470.4	7507.8	7542.8
10°	6784.5	6772.5	6736.7	6754.4	6782.9
12.5°	5731.6	5692.6	5691.8	5748.0	5740.4
15°	4341.7	4289.4	4318.4	4304.3	4296.7
17.5°	2919.7	2899.5	2938.1	2926.5	2876.2
20°	2100.3	2105.5	2179.1	2142.1	2097.5
22.5°	1532.6	1551.5	1638.7	1543.5	1508.5
25°	1020.4	1059.0	1150.7	1032.0	999.5
27.5°	627.6	645.3	738.2	619.6	601.9
30°	390.4	381.5	425.4	365.1	340.1
32.5°	256.1	244.8	258.9	232.4	212.3
35°	171.3	174.9	164.0	162.8	137.5
37.5°	106.9	123.0	108.6	115.8	88.4
40°	69.2	89.3	76.8	84.8	65.1
42.5°	56.7	68.7	63.1	67.1	57.9
45°	45.0	55.9	55.9	55.9	45.4
47.5°	24.9	37.4	47.8	38.2	26.5
50°	14.1	18.9	37.0	19.7	14.9
52.5°	9.6	10.9	25.3	11.3	10.1
55°	7.2	7.6	13.7	8.0	7.6
57.5°	5.6	6.0	7.2	6.0	5.6
60°	4.4	4.4	5.2	4.8	4.4
62.5°	3.2	3.2	3.6	3.2	3.2
65°	2.4	2.4	2.4	2.4	2.4
67.5°	1.2	1.6	1.6	1.6	1.6
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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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