

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: P746809

Luminaire Tested: LD4D35BD010-EU4DR3020359040-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746809
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-EU4DR3020359040-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2775.2 lumens
Efficiency: N/A
Efficacy: 90.1 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

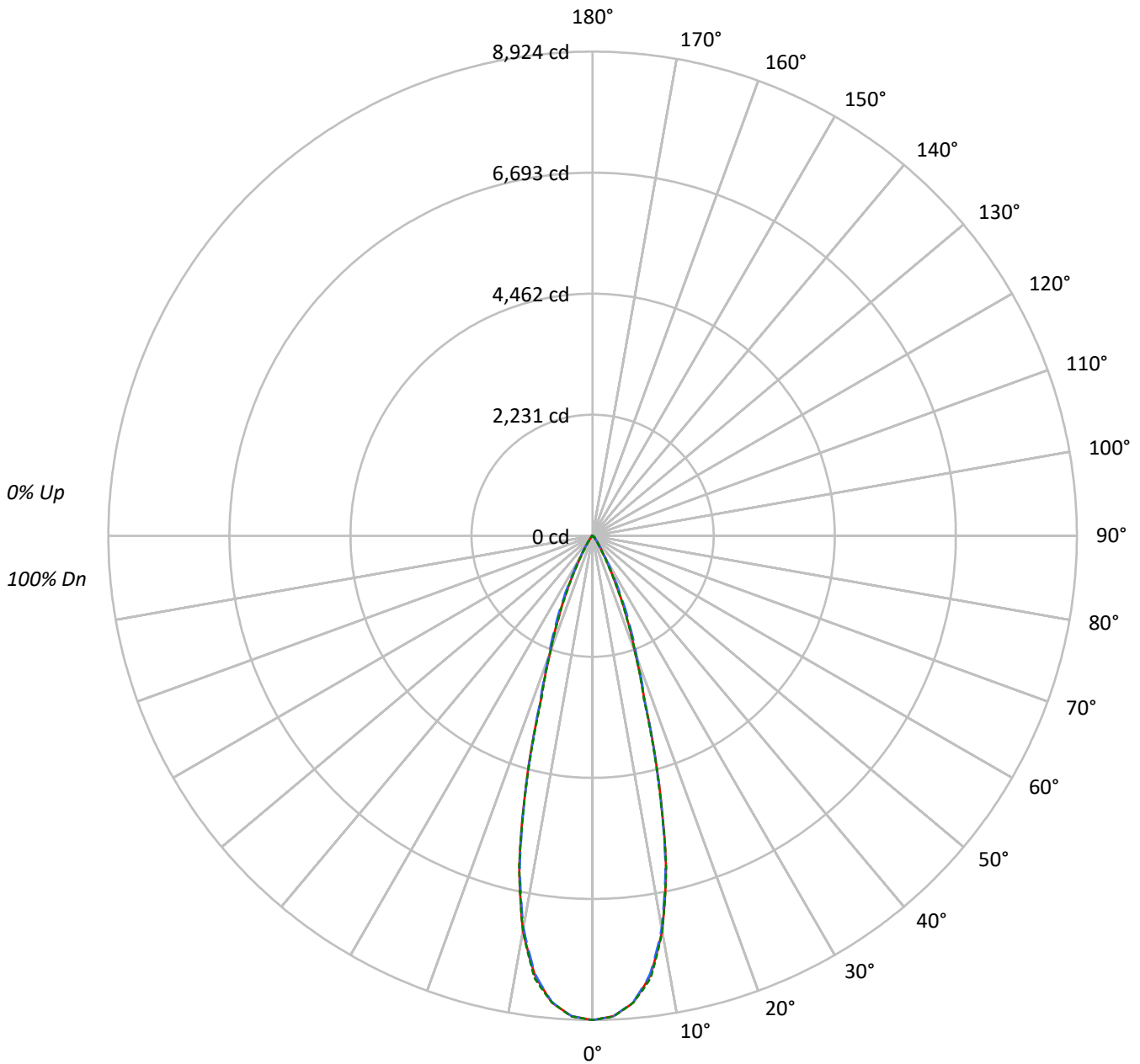
Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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									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°	683058	683058	683058
5°	663446	662670	663477
10°	574646	570589	574506
15°	374925	372912	371042
20°	186436	193425	186183
25°	93915	105900	91990
30°	37599	40966	32764
35°	17436	16707	13998
40°	7534	8363	7094
45°	5315	6592	5358
50°	1822	4799	1929
55°	1054	1988	1108
60°	735	873	735
65°	471	471	471
70°	291	201	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: 6592 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	784.7	28.3
10°-20°	1263.8	45.5
20°-30°	546.1	19.7
30°-40°	124.5	4.5
40°-50°	42.7	1.5
50°-60°	10.4	0.4
60°-70°	2.7	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°	2594.6	93.5
0°-40°	2719.1	98.0
0°-60°	2772.3	99.9
0°-90°	2775.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2775.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8924	8924	8924	8924	8924	
5°	8635	8626	8624	8642	8635	785
15°	4731	4674	4706	4691	4682	1267
25°	1112	1154	1254	1125	1089	532
35°	187	191	179	177	150	127
45°	49	61	61	61	50	35
55°	8	8	15	9	8	8
65°	3	3	3	3	3	3
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°	8923.8	8923.8	8923.8	8923.8	8923.8
2.5°	8864.6	8858.5	8862.0	8866.4	8868.1
5°	8634.6	8626.3	8624.5	8642.5	8635.0
7.5°	8170.6	8158.8	8140.8	8181.6	8219.7
10°	7393.4	7380.2	7341.2	7360.5	7391.6
12.5°	6245.9	6203.4	6202.6	6263.9	6255.6
15°	4731.3	4674.4	4705.9	4690.6	4682.3
17.5°	3181.7	3159.8	3201.8	3189.1	3134.4
20°	2288.8	2294.5	2374.6	2334.3	2285.7
22.5°	1670.1	1690.7	1785.8	1682.0	1643.8
25°	1112.0	1154.0	1253.9	1124.7	1089.2
27.5°	683.9	703.2	804.4	675.2	655.9
30°	425.4	415.8	463.5	397.8	370.7
32.5°	279.1	266.8	282.2	253.2	231.3
35°	186.6	190.6	178.8	177.4	149.8
37.5°	116.5	134.1	118.3	126.2	96.4
40°	75.4	97.3	83.7	92.4	71.0
42.5°	61.8	74.9	68.8	73.2	63.1
45°	49.1	60.9	60.9	60.9	49.5
47.5°	27.2	40.7	52.1	41.6	28.9
50°	15.3	20.6	40.3	21.5	16.2
52.5°	10.5	11.8	27.6	12.3	11.0
55°	7.9	8.3	14.9	8.8	8.3
57.5°	6.1	6.6	7.9	6.6	6.1
60°	4.8	4.8	5.7	5.3	4.8
62.5°	3.5	3.5	3.9	3.5	3.5
65°	2.6	2.6	2.6	2.6	2.6
67.5°	1.3	1.8	1.8	1.8	1.8
70°	1.3	0.9	0.9	0.9	1.3
72.5°	0.9	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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