

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: P753013

Luminaire Tested: LD4D75BD010-EU4DR3070959030-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753013
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: LD4D75BD010-EU4DR3070959030-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST 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: 6394.1 lumens
Efficiency: N/A
Efficacy: 88.3 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

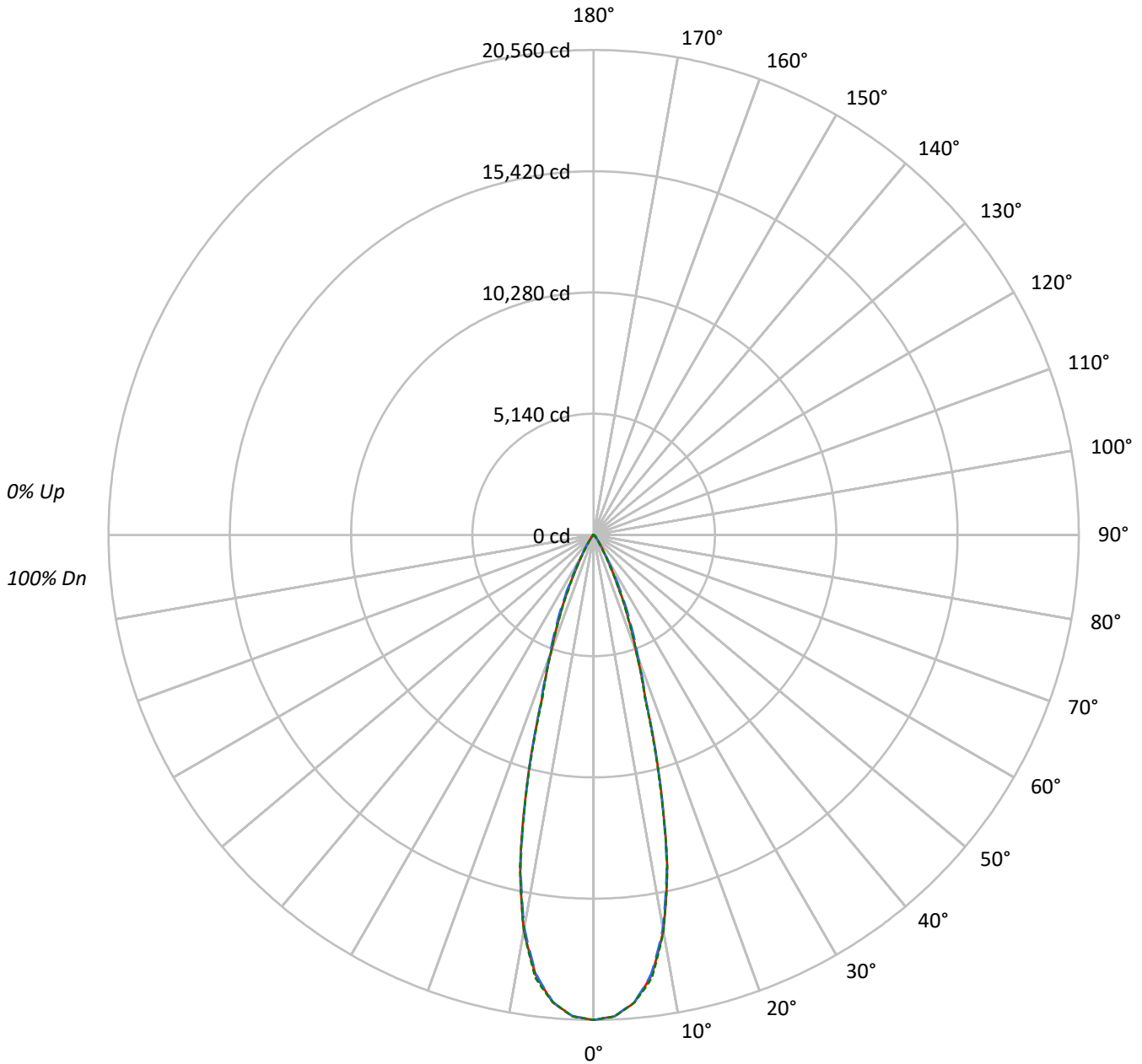
Input Watts (W): 72.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1573740	1573740	1573740
5°	1528563	1526781	1528640
10°	1323970	1314635	1323651
15°	863826	859182	854864
20°	429541	445653	428962
25°	216369	243994	211935
30°	86635	94395	75481
35°	40180	38480	32256
40°	17346	19265	16337
45°	12243	15187	12351
50°	4204	11063	4442
55°	2429	4577	2562
60°	1699	2005	1699
65°	1105	1105	1105
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 15187 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1808.0	28.3
10°-20°	2911.7	45.5
20°-30°	1258.2	19.7
30°-40°	286.8	4.5
40°-50°	98.5	1.5
50°-60°	24.1	0.4
60°-70°	6.2	0.1
70°-80°	0.7	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°	5977.9	93.5
0°-40°	6264.7	98.0
0°-60°	6387.2	99.9
0°-90°	6394.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6394.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20560	20560	20560	20560	20560	
5°	19894	19875	19871	19912	19895	1809
15°	10901	10770	10842	10807	10788	2919
25°	2562	2659	2889	2591	2509	1226
35°	430	439	412	409	345	292
45°	113	140	140	140	114	80
55°	18	19	34	20	19	18
65°	6	6	6	6	6	6
75°	0	0	1	0	0	1
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°	20560.1	20560.1	20560.1	20560.1	20560.1
2.5°	20423.8	20409.7	20417.8	20427.9	20431.9
5°	19893.9	19874.7	19870.7	19912.1	19894.9
7.5°	18824.9	18797.7	18756.3	18850.1	18938.0
10°	17034.2	17003.9	16914.1	16958.5	17030.1
12.5°	14390.5	14292.6	14290.5	14431.9	14412.7
15°	10900.9	10769.6	10842.3	10807.0	10787.8
17.5°	7330.5	7280.0	7376.9	7347.7	7221.5
20°	5273.3	5286.4	5471.1	5378.3	5266.2
22.5°	3848.0	3895.4	4114.4	3875.2	3787.4
25°	2561.9	2658.8	2889.0	2591.2	2509.4
27.5°	1575.7	1620.1	1853.3	1555.5	1511.1
30°	980.2	958.0	1068.0	916.6	854.0
32.5°	643.0	614.7	650.1	583.5	533.0
35°	430.0	439.1	411.8	408.8	345.2
37.5°	268.5	308.9	272.5	290.7	222.1
40°	173.6	224.1	192.8	213.0	163.5
42.5°	142.3	172.6	158.5	168.6	145.4
45°	113.1	140.3	140.3	140.3	114.1
47.5°	62.6	93.9	120.1	95.9	66.6
50°	35.3	47.4	92.9	49.5	37.3
52.5°	24.2	27.3	63.6	28.3	25.2
55°	18.2	19.2	34.3	20.2	19.2
57.5°	14.1	15.1	18.2	15.1	14.1
60°	11.1	11.1	13.1	12.1	11.1
62.5°	8.1	8.1	9.1	8.1	8.1
65°	6.1	6.1	6.1	6.1	6.1
67.5°	3.0	4.0	4.0	4.0	4.0
70°	3.0	2.0	2.0	2.0	3.0
72.5°	2.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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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