

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: P753062

Luminaire Tested: LD4D75BD010-EU4DR3070959050-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753062
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-EU4DR3070959050-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

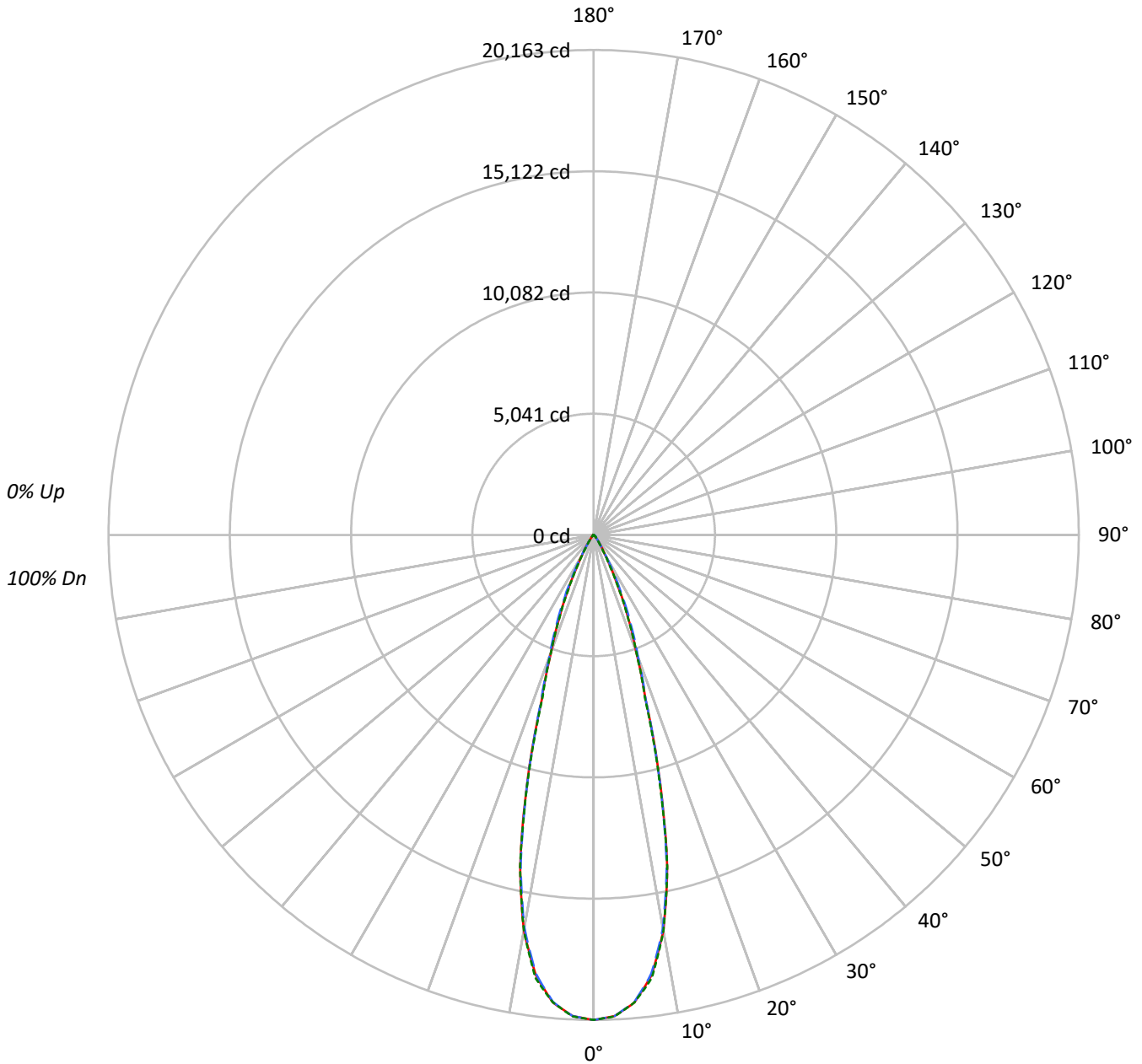
Lumens per Lamp: N/A
Luminaire Lumens: 6270.5 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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	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°	1543314	1543314	1543314
5°	1499005	1497253	1499081
10°	1298367	1289211	1298056
15°	847122	842573	838333
20°	421232	437035	420670
25°	212188	239273	207838
30°	84955	92565	74022
35°	39405	37741	31640
40°	17016	18895	16027
45°	12005	14895	12113
50°	4120	10848	4358
55°	2375	4497	2509
60°	1669	1975	1669
65°	1069	1069	1069
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: 14895 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1773.0	28.3
10°-20°	2855.4	45.5
20°-30°	1233.9	19.7
30°-40°	281.2	4.5
40°-50°	96.6	1.5
50°-60°	23.6	0.4
60°-70°	6.1	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°	5862.3	93.5
0°-40°	6143.6	98.0
0°-60°	6263.7	99.9
0°-90°	6270.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6270.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20163	20163	20163	20163	20163	
5°	19509	19490	19486	19527	19510	1774
15°	10690	10561	10633	10598	10579	2862
25°	2512	2607	2833	2541	2461	1203
35°	422	431	404	401	339	286
45°	111	138	138	138	112	79
55°	18	19	34	20	19	17
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°	20162.6	20162.6	20162.6	20162.6	20162.6
2.5°	20028.9	20015.1	20023.0	20032.9	20036.8
5°	19509.2	19490.4	19486.4	19527.0	19510.2
7.5°	18460.9	18434.2	18393.6	18485.6	18571.8
10°	16704.8	16675.1	16587.0	16630.5	16700.8
12.5°	14112.2	14016.2	14014.2	14152.8	14134.0
15°	10690.1	10561.4	10632.7	10598.0	10579.2
17.5°	7188.8	7139.3	7234.3	7205.6	7081.8
20°	5171.3	5184.2	5365.3	5274.3	5164.4
22.5°	3773.5	3820.1	4034.9	3800.3	3714.2
25°	2512.4	2607.4	2833.1	2541.1	2460.9
27.5°	1545.3	1588.8	1817.5	1525.5	1481.9
30°	961.2	939.4	1047.3	898.8	837.5
32.5°	630.6	602.9	637.5	572.2	522.7
35°	421.7	430.6	403.9	400.9	338.6
37.5°	263.3	302.9	267.3	285.1	217.8
40°	170.3	219.8	189.1	208.9	160.4
42.5°	139.6	169.3	155.4	165.3	142.5
45°	110.9	137.6	137.6	137.6	111.9
47.5°	61.4	92.1	117.8	94.0	65.3
50°	34.6	46.5	91.1	48.5	36.6
52.5°	23.8	26.7	62.4	27.7	24.7
55°	17.8	18.8	33.7	19.8	18.8
57.5°	13.9	14.8	17.8	14.8	13.9
60°	10.9	10.9	12.9	11.9	10.9
62.5°	7.9	7.9	8.9	7.9	7.9
65°	5.9	5.9	5.9	5.9	5.9
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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