

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: P754622

Luminaire Tested: LD4D85BD010-EU4DR3070959050-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754622
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: LD4D85BD010-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

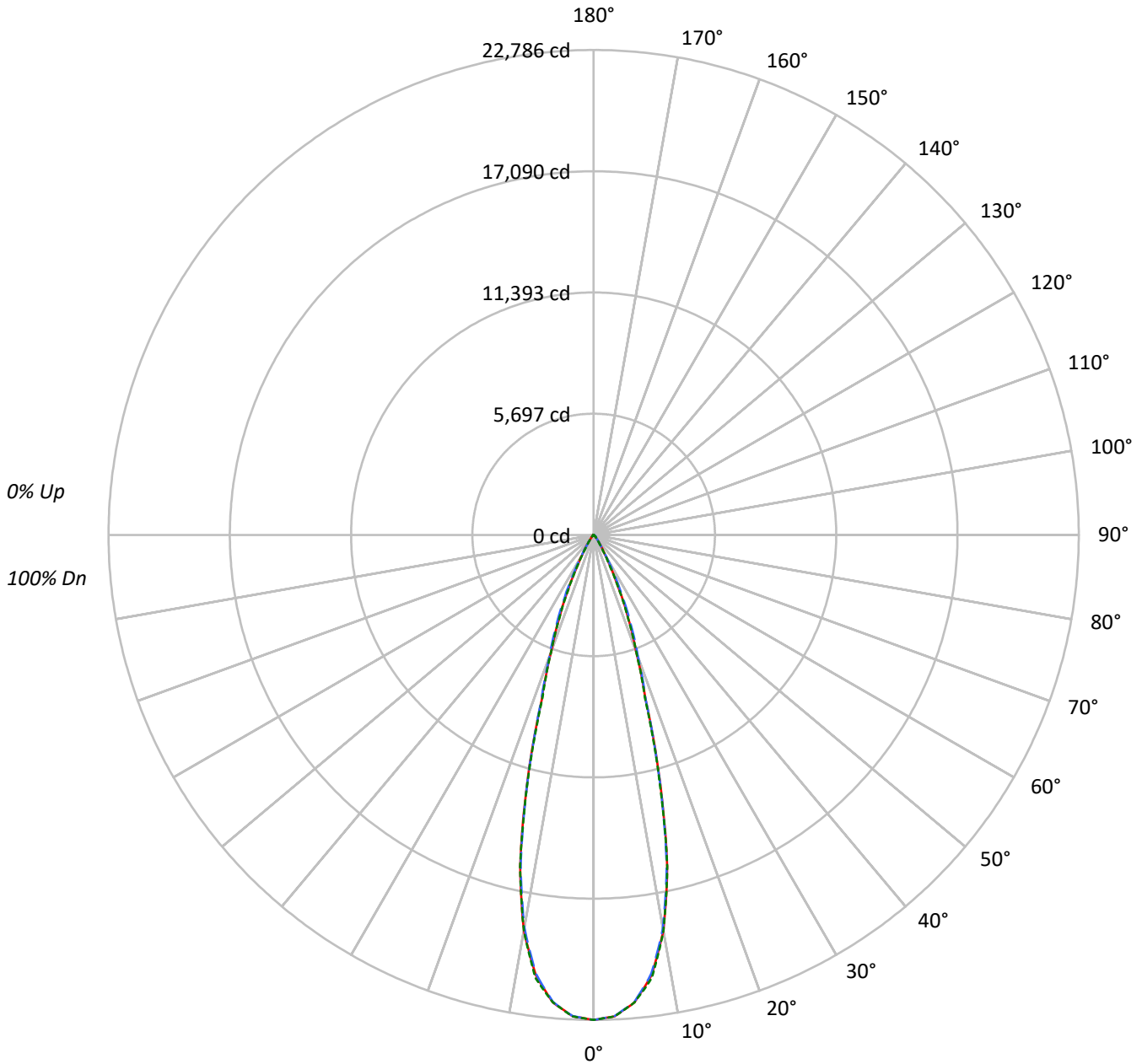
Lumens per Lamp: N/A
Luminaire Lumens: 7086.3 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 87.7
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°	1744118	1744118	1744118
5°	1694052	1692070	1694137
10°	1467301	1456956	1466959
15°	957341	952198	947412
20°	476044	493899	475400
25°	239797	270412	234881
30°	96012	104612	83647
35°	44535	42647	35751
40°	19225	21353	18106
45°	13564	16833	13683
50°	4668	12253	4930
55°	2682	5071	2842
60°	1883	2220	1883
65°	1213	1213	1213
70°	761	492	761
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 16833 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2003.7	28.3
10°-20°	3227.0	45.5
20°-30°	1394.4	19.7
30°-40°	317.8	4.5
40°-50°	109.1	1.5
50°-60°	26.7	0.4
60°-70°	6.9	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°	6625.1	93.5
0°-40°	6942.9	98.0
0°-60°	7078.7	99.9
0°-90°	7086.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7086.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22786	22786	22786	22786	22786	
5°	22048	22026	22022	22068	22049	2005
15°	12081	11936	12016	11977	11956	3235
25°	2839	2947	3202	2872	2781	1359
35°	477	487	456	453	383	323
45°	125	156	156	156	126	89
55°	20	21	38	22	21	20
65°	7	7	7	7	7	7
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°	22786.0	22786.0	22786.0	22786.0	22786.0
2.5°	22635.0	22619.3	22628.3	22639.5	22643.9
5°	22047.7	22026.4	22021.9	22067.8	22048.8
7.5°	20862.9	20832.7	20786.9	20890.9	20988.2
10°	18878.3	18844.8	18745.2	18794.4	18873.9
12.5°	15948.4	15839.9	15837.7	15994.3	15973.0
15°	12081.0	11935.6	12016.1	11977.0	11955.7
17.5°	8124.1	8068.2	8175.6	8143.1	8003.3
20°	5844.2	5858.7	6063.4	5960.5	5836.3
22.5°	4264.5	4317.1	4559.9	4294.8	4197.4
25°	2839.3	2946.7	3201.8	2871.7	2781.1
27.5°	1746.3	1795.5	2054.0	1723.9	1674.7
30°	1086.3	1061.7	1183.6	1015.8	946.4
32.5°	712.6	681.3	720.5	646.6	590.7
35°	476.6	486.6	456.4	453.1	382.6
37.5°	297.6	342.3	302.1	322.2	246.1
40°	192.4	248.4	213.7	236.0	181.2
42.5°	157.7	191.3	175.6	186.8	161.1
45°	125.3	155.5	155.5	155.5	126.4
47.5°	69.4	104.0	133.1	106.3	73.8
50°	39.2	52.6	102.9	54.8	41.4
52.5°	26.8	30.2	70.5	31.3	28.0
55°	20.1	21.3	38.0	22.4	21.3
57.5°	15.7	16.8	20.1	16.8	15.7
60°	12.3	12.3	14.5	13.4	12.3
62.5°	8.9	8.9	10.1	8.9	8.9
65°	6.7	6.7	6.7	6.7	6.7
67.5°	3.4	4.5	4.5	4.5	4.5
70°	3.4	2.2	2.2	2.2	3.4
72.5°	2.2	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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