

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: P754583

Luminaire Tested: LD4D85BD010-EU4DR3070959030-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754583
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-EU4DR3070959030-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF 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: 6651.8 lumens
Efficiency: N/A
Efficacy: 75.8 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

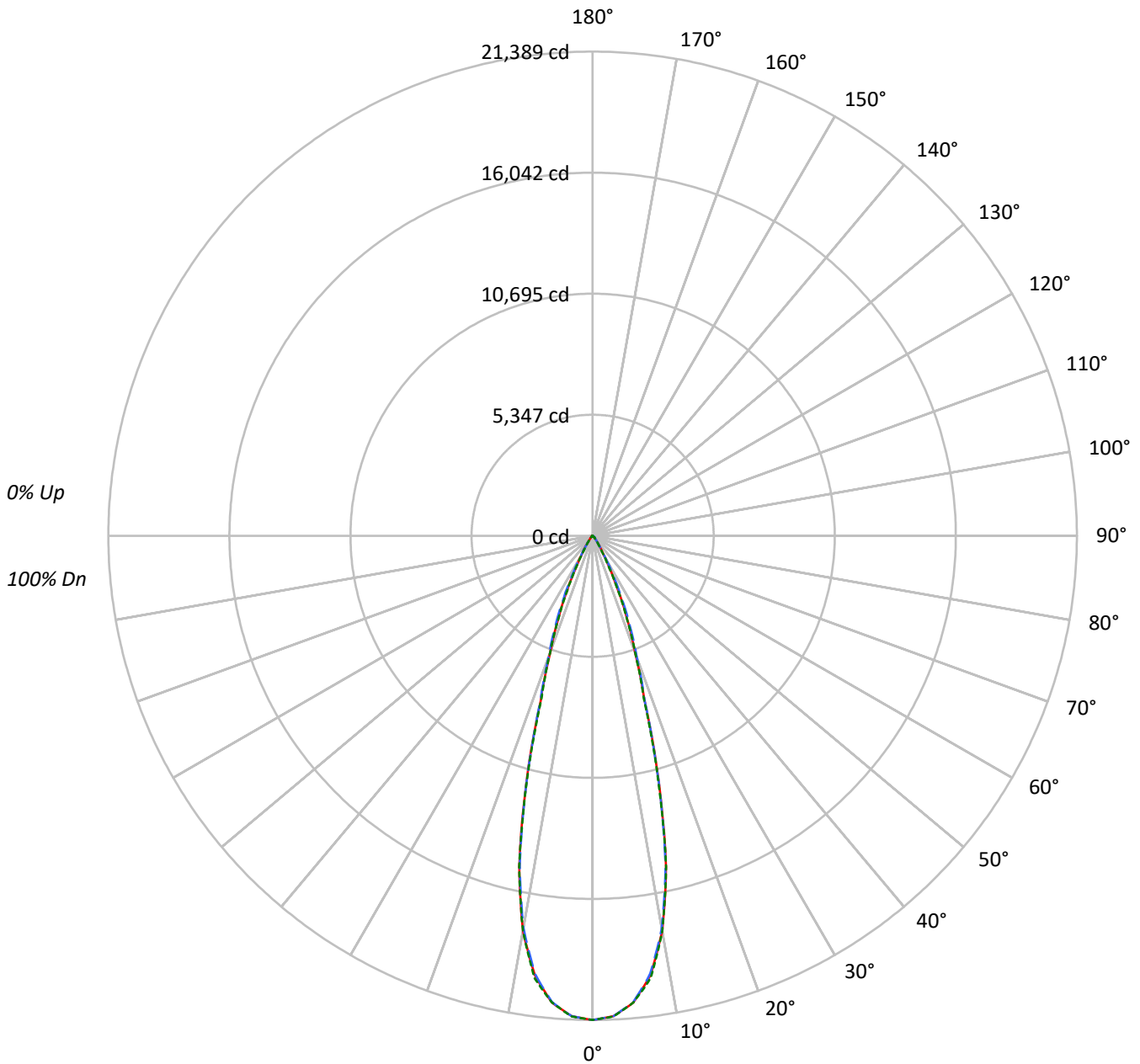
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1637156	1637156	1637156
5°	1590163	1588303	1590239
10°	1377319	1367604	1376993
15°	898630	893804	889311
20°	446850	463614	446247
25°	225093	253825	220482
30°	90126	98195	78521
35°	41797	40031	33555
40°	18046	20044	16996
45°	12730	15804	12849
50°	4382	11503	4632
55°	2522	4764	2669
60°	1776	2097	1776
65°	1141	1141	1141
70°	716	470	716
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 15804 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1880.8	28.3
10°-20°	3029.1	45.5
20°-30°	1308.9	19.7
30°-40°	298.3	4.5
40°-50°	102.5	1.5
50°-60°	25.0	0.4
60°-70°	6.5	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°	6218.8	93.5
0°-40°	6517.1	98.0
0°-60°	6644.6	99.9
0°-90°	6651.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6651.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21389	21389	21389	21389	21389	
5°	20696	20676	20671	20714	20697	1882
15°	11340	11204	11279	11242	11222	3036
25°	2665	2766	3005	2696	2611	1276
35°	447	457	428	425	359	303
45°	118	146	146	146	119	83
55°	19	20	36	21	20	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°	21388.6	21388.6	21388.6	21388.6	21388.6
2.5°	21246.9	21232.2	21240.6	21251.1	21255.3
5°	20695.6	20675.6	20671.4	20714.5	20696.6
7.5°	19583.5	19555.1	19512.1	19609.7	19701.1
10°	17720.6	17689.1	17595.6	17641.8	17716.4
12.5°	14970.4	14868.5	14866.4	15013.4	14993.5
15°	11340.1	11203.6	11279.2	11242.5	11222.5
17.5°	7625.9	7573.4	7674.2	7643.7	7512.5
20°	5485.8	5499.4	5691.6	5595.0	5478.4
22.5°	4003.0	4052.4	4280.2	4031.4	3940.0
25°	2665.2	2766.0	3005.4	2695.6	2610.6
27.5°	1639.2	1685.4	1928.0	1618.2	1572.0
30°	1019.7	996.6	1111.0	953.5	888.4
32.5°	668.9	639.5	676.3	607.0	554.5
35°	447.3	456.8	428.4	425.3	359.1
37.5°	279.3	321.3	283.5	302.4	231.0
40°	180.6	233.1	200.6	221.6	170.1
42.5°	148.1	179.6	164.9	175.4	151.2
45°	117.6	146.0	146.0	146.0	118.7
47.5°	65.1	97.7	125.0	99.8	69.3
50°	36.8	49.4	96.6	51.5	38.9
52.5°	25.2	28.4	66.2	29.4	26.3
55°	18.9	20.0	35.7	21.0	20.0
57.5°	14.7	15.8	18.9	15.8	14.7
60°	11.6	11.6	13.7	12.6	11.6
62.5°	8.4	8.4	9.5	8.4	8.4
65°	6.3	6.3	6.3	6.3	6.3
67.5°	3.2	4.2	4.2	4.2	4.2
70°	3.2	2.1	2.1	2.1	3.2
72.5°	2.1	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

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

Scaled Data Report



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Scaled Data Report





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

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