

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: P754558

Luminaire Tested: LD4D85BD010-EU4DR3070959027-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754558
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-EU4DR3070959027-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

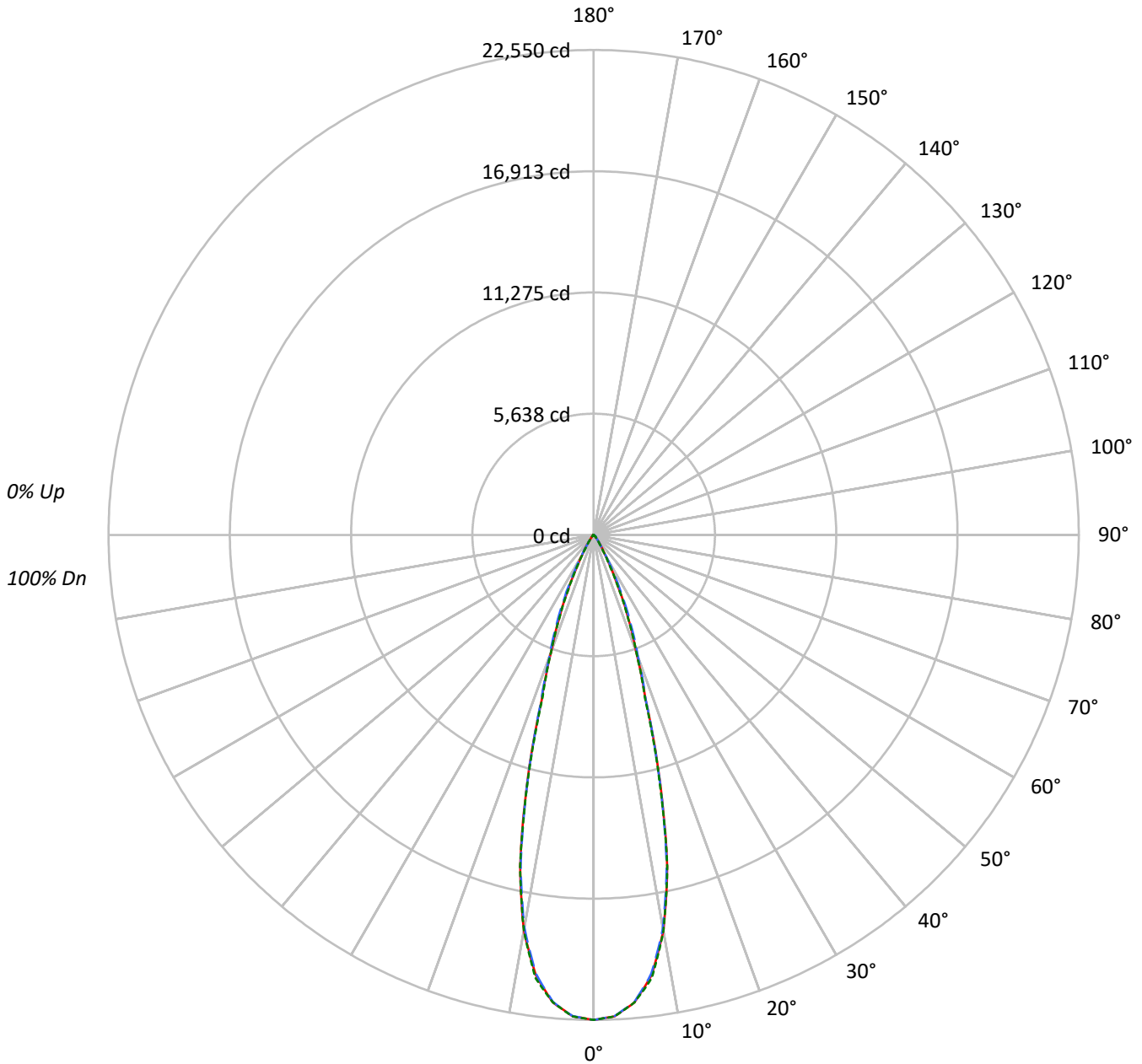
Lumens per Lamp: N/A
Luminaire Lumens: 7013.0 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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°	1726069	1726069	1726069
5°	1676518	1674559	1676603
10°	1452121	1441877	1451771
15°	947436	942349	937610
20°	471116	488792	470480
25°	237314	267608	232449
30°	95014	103534	82781
35°	44067	42208	35377
40°	19025	21133	17926
45°	13423	16659	13542
50°	4608	12134	4882
55°	2656	5018	2802
60°	1868	2204	1868
65°	1195	1195	1195
70°	739	492	739
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 16659 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1982.9	28.3
10°-20°	3193.6	45.5
20°-30°	1380.0	19.7
30°-40°	314.5	4.5
40°-50°	108.0	1.5
50°-60°	26.4	0.4
60°-70°	6.8	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°	6556.5	93.5
0°-40°	6871.1	98.0
0°-60°	7005.4	99.9
0°-90°	7013.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7013.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22550	22550	22550	22550	22550	
5°	21820	21798	21794	21839	21821	1985
15°	11956	11812	11892	11853	11832	3201
25°	2810	2916	3169	2842	2752	1345
35°	472	482	452	448	379	320
45°	124	154	154	154	125	88
55°	20	21	38	22	21	19
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°	22550.2	22550.2	22550.2	22550.2	22550.2
2.5°	22400.7	22385.2	22394.1	22405.2	22409.6
5°	21819.5	21798.4	21794.0	21839.4	21820.6
7.5°	20647.0	20617.1	20571.7	20674.7	20771.0
10°	18683.0	18649.7	18551.2	18599.9	18678.5
12.5°	15783.4	15676.0	15673.8	15828.8	15807.7
15°	11956.0	11812.1	11891.8	11853.0	11832.0
17.5°	8040.0	7984.7	8091.0	8058.9	7920.5
20°	5783.7	5798.1	6000.7	5898.8	5775.9
22.5°	4220.4	4272.4	4512.7	4250.3	4154.0
25°	2809.9	2916.2	3168.6	2842.0	2752.3
27.5°	1728.2	1777.0	2032.7	1706.1	1657.4
30°	1075.0	1050.7	1171.4	1005.3	936.6
32.5°	705.2	674.2	713.0	639.9	584.6
35°	471.6	481.6	451.7	448.4	378.6
37.5°	294.5	338.8	298.9	318.9	243.6
40°	190.4	245.8	211.5	233.6	179.4
42.5°	156.1	189.3	173.8	184.9	159.4
45°	124.0	153.9	153.9	153.9	125.1
47.5°	68.6	103.0	131.7	105.2	73.1
50°	38.7	52.0	101.9	54.2	41.0
52.5°	26.6	29.9	69.7	31.0	27.7
55°	19.9	21.0	37.6	22.1	21.0
57.5°	15.5	16.6	19.9	16.6	15.5
60°	12.2	12.2	14.4	13.3	12.2
62.5°	8.9	8.9	10.0	8.9	8.9
65°	6.6	6.6	6.6	6.6	6.6
67.5°	3.3	4.4	4.4	4.4	4.4
70°	3.3	2.2	2.2	2.2	3.3
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

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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