

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: P754610

Luminaire Tested: LD4D85BD010-EU4DR3070959050-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754610
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-EU4DR3070959050-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7697.0 lumens
Efficiency: N/A
Efficacy: 87.8 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

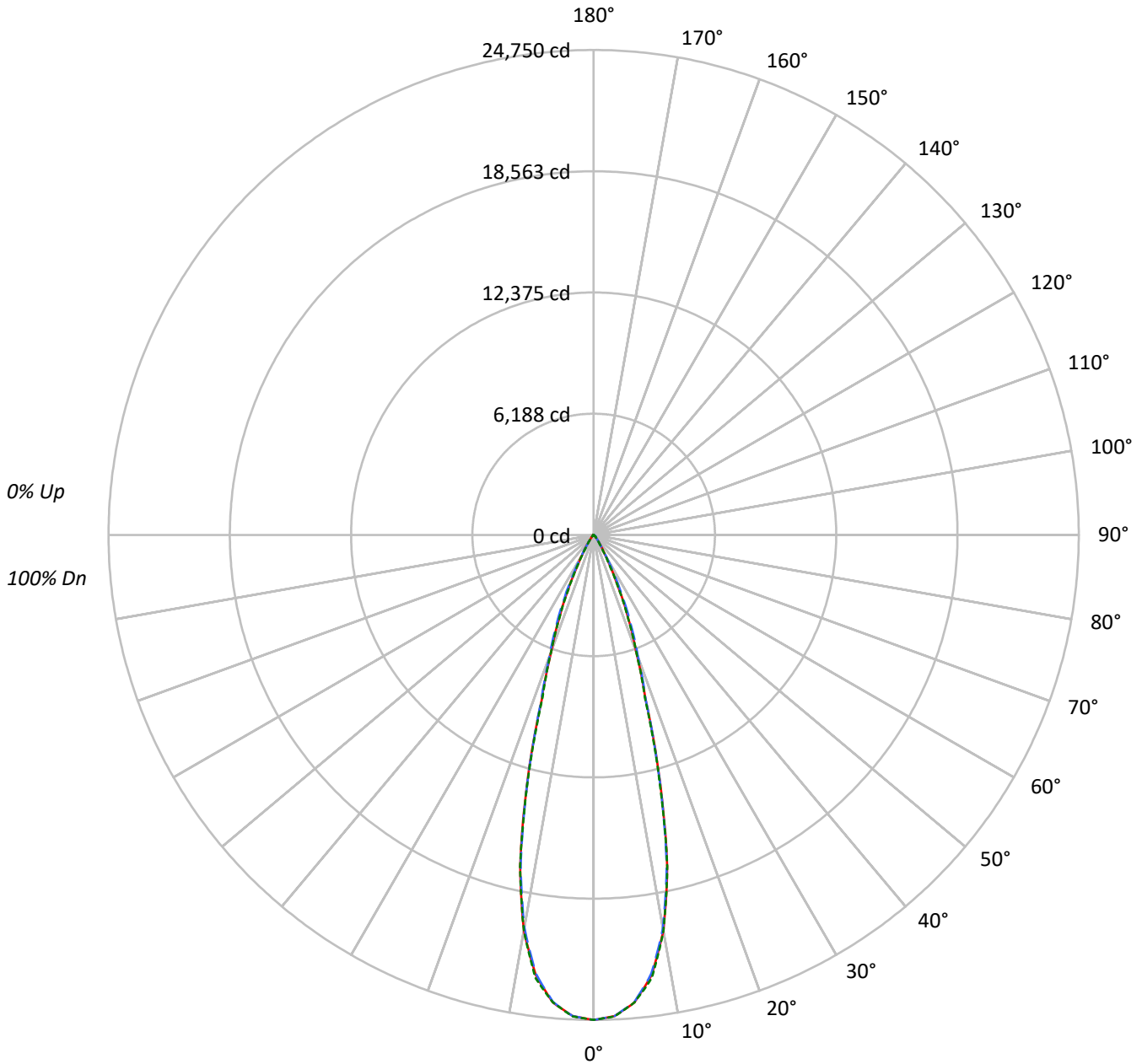
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1894411	1894411	1894411
5°	1840025	1837873	1840117
10°	1593743	1582504	1593362
15°	1039834	1034247	1029049
20°	517065	536460	516373
25°	260463	293714	255126
30°	104285	113627	90859
35°	48366	46329	38835
40°	20883	23192	19664
45°	14733	18283	14863
50°	5061	13313	5359
55°	2923	5511	3083
60°	2051	2419	2051
65°	1322	1322	1322
70°	806	537	806
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 18283 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2176.3	28.3
10°-20°	3505.0	45.5
20°-30°	1514.6	19.7
30°-40°	345.2	4.5
40°-50°	118.5	1.5
50°-60°	29.0	0.4
60°-70°	7.5	0.1
70°-80°	0.8	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°	7196.0	93.5
0°-40°	7541.2	98.0
0°-60°	7688.7	99.9
0°-90°	7697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7697.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24750	24750	24750	24750	24750	
5°	23948	23924	23920	23969	23949	2178
15°	13122	12964	13052	13009	12986	3514
25°	3084	3201	3478	3119	3021	1476
35°	518	529	496	492	416	351
45°	136	169	169	169	137	97
55°	22	23	41	24	23	21
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°	24749.5	24749.5	24749.5	24749.5	24749.5
2.5°	24585.4	24568.4	24578.1	24590.3	24595.1
5°	23947.5	23924.4	23919.5	23969.4	23948.7
7.5°	22660.7	22627.9	22578.0	22691.0	22796.8
10°	20505.1	20468.6	20360.5	20413.9	20500.2
12.5°	17322.7	17204.8	17202.4	17372.5	17349.4
15°	13122.0	12964.1	13051.5	13009.0	12985.9
17.5°	8824.2	8763.4	8880.1	8844.8	8692.9
20°	6347.8	6363.6	6585.9	6474.1	6339.3
22.5°	4632.0	4689.1	4952.8	4664.8	4559.1
25°	3084.0	3200.6	3477.7	3119.2	3020.8
27.5°	1896.8	1950.3	2231.0	1872.5	1819.0
30°	1179.9	1153.1	1285.6	1103.3	1028.0
32.5°	774.0	740.0	782.5	702.3	641.6
35°	517.6	528.6	495.8	492.1	415.6
37.5°	323.2	371.8	328.1	350.0	267.3
40°	209.0	269.8	232.1	256.4	196.8
42.5°	171.3	207.8	190.8	202.9	175.0
45°	136.1	168.9	168.9	168.9	137.3
47.5°	75.3	113.0	144.6	115.4	80.2
50°	42.5	57.1	111.8	59.5	45.0
52.5°	29.2	32.8	76.6	34.0	30.4
55°	21.9	23.1	41.3	24.3	23.1
57.5°	17.0	18.2	21.9	18.2	17.0
60°	13.4	13.4	15.8	14.6	13.4
62.5°	9.7	9.7	10.9	9.7	9.7
65°	7.3	7.3	7.3	7.3	7.3
67.5°	3.6	4.9	4.9	4.9	4.9
70°	3.6	2.4	2.4	2.4	3.6
72.5°	2.4	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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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