

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: P752257

Luminaire Tested: LD4D70BD010-EU4DR3070959040-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752257
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: LD4D70BD010-EU4DR3070959040-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6398.2 lumens
Efficiency: N/A
Efficacy: 96.1 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

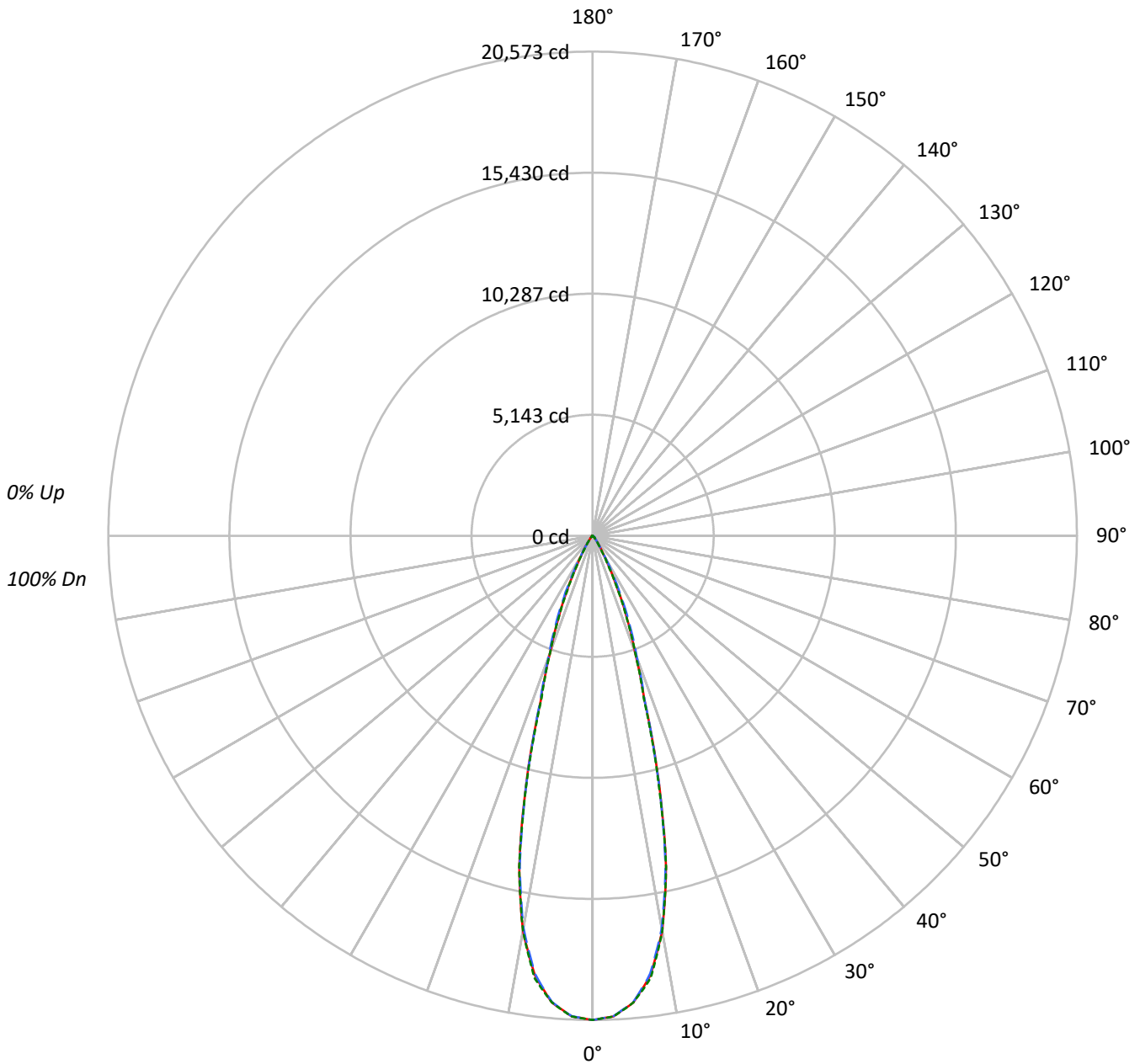
Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1574758	1574758	1574758
5°	1529547	1527764	1529624
10°	1324817	1315474	1324506
15°	864381	859737	855410
20°	429818	445938	429239
25°	216512	244155	212078
30°	86688	94457	75525
35°	40208	38508	32275
40°	17356	19275	16347
45°	12243	15198	12351
50°	4215	11063	4454
55°	2429	4577	2562
60°	1699	2005	1699
65°	1105	1105	1105
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: 15198 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1809.1	28.3
10°-20°	2913.6	45.5
20°-30°	1259.0	19.7
30°-40°	287.0	4.5
40°-50°	98.5	1.5
50°-60°	24.1	0.4
60°-70°	6.2	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°	5981.8	93.5
0°-40°	6268.7	98.0
0°-60°	6391.3	99.9
0°-90°	6398.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6398.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20573	20573	20573	20573	20573	
5°	19907	19888	19884	19925	19908	1811
15°	10908	10777	10849	10814	10795	2921
25°	2564	2661	2891	2593	2511	1227
35°	430	439	412	409	345	292
45°	113	140	140	140	114	80
55°	18	19	34	20	19	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°	20573.4	20573.4	20573.4	20573.4	20573.4
2.5°	20437.0	20422.8	20430.9	20441.0	20445.1
5°	19906.7	19887.5	19883.5	19924.9	19907.7
7.5°	18837.0	18809.7	18768.3	18862.3	18950.1
10°	17045.1	17014.8	16924.9	16969.4	17041.1
12.5°	14399.7	14301.8	14299.7	14441.1	14422.0
15°	10907.9	10776.6	10849.3	10813.9	10794.7
17.5°	7335.2	7284.7	7381.7	7352.4	7226.1
20°	5276.7	5289.8	5474.6	5381.7	5269.6
22.5°	3850.4	3897.9	4117.1	3877.7	3789.8
25°	2563.6	2660.6	2890.9	2592.9	2511.1
27.5°	1576.7	1621.2	1854.5	1556.5	1512.1
30°	980.8	958.6	1068.7	917.2	854.5
32.5°	643.4	615.1	650.5	583.8	533.3
35°	430.3	439.4	412.1	409.1	345.4
37.5°	268.7	309.1	272.7	290.9	222.2
40°	173.7	224.2	192.9	213.1	163.6
42.5°	142.4	172.7	158.6	168.7	145.5
45°	113.1	140.4	140.4	140.4	114.1
47.5°	62.6	93.9	120.2	96.0	66.7
50°	35.4	47.5	92.9	49.5	37.4
52.5°	24.2	27.3	63.6	28.3	25.3
55°	18.2	19.2	34.3	20.2	19.2
57.5°	14.1	15.2	18.2	15.2	14.1
60°	11.1	11.1	13.1	12.1	11.1
62.5°	8.1	8.1	9.1	8.1	8.1
65°	6.1	6.1	6.1	6.1	6.1
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

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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