

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: P752230

Luminaire Tested: LD4D70BD010-EU4DR3070959027-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752230
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-EU4DR3070959027-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5405.5 lumens
Efficiency: N/A
Efficacy: 81.2 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')

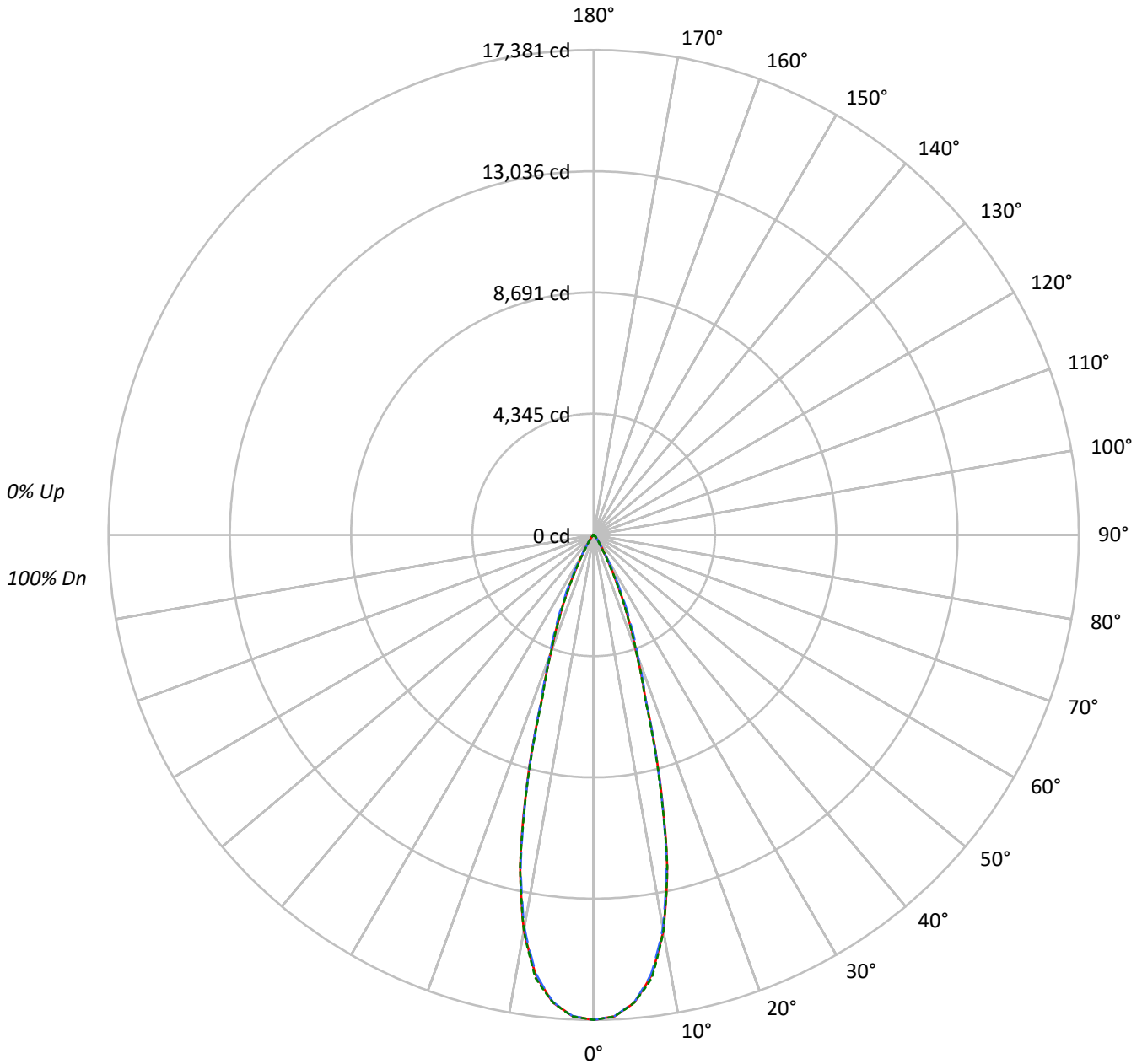
CIE Type: Direct

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					70					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	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°	1330424	1330424	1330424
5°	1292232	1290726	1292301
10°	1119267	1111378	1119003
15°	730269	726346	722693
20°	363130	376749	362641
25°	182915	206268	179174
30°	73236	79803	63805
35°	33966	32537	27276
40°	14668	16287	13809
45°	10349	12838	10435
50°	3561	9348	3763
55°	2055	3870	2162
60°	1439	1699	1439
65°	924	924	924
70°	582	380	582
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12838 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1528.4	28.3
10°-20°	2461.5	45.5
20°-30°	1063.7	19.7
30°-40°	242.4	4.5
40°-50°	83.2	1.5
50°-60°	20.3	0.4
60°-70°	5.3	0.1
70°-80°	0.6	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°	5053.7	93.5
0°-40°	5296.1	98.0
0°-60°	5399.7	99.9
0°-90°	5405.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5405.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17381	17381	17381	17381	17381	
5°	16818	16802	16798	16834	16819	1530
15°	9216	9105	9166	9136	9120	2468
25°	2166	2248	2442	2191	2122	1037
35°	364	371	348	346	292	247
45°	96	119	119	119	96	68
55°	15	16	29	17	16	15
65°	5	5	5	5	5	5
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°	17381.3	17381.3	17381.3	17381.3	17381.3
2.5°	17266.1	17254.2	17261.0	17269.6	17273.0
5°	16818.1	16801.9	16798.5	16833.5	16819.0
7.5°	15914.4	15891.4	15856.4	15935.7	16010.0
10°	14400.5	14374.9	14299.0	14336.5	14397.1
12.5°	12165.6	12082.8	12081.1	12200.6	12184.4
15°	9215.5	9104.6	9166.0	9136.1	9119.9
17.5°	6197.1	6154.5	6236.4	6211.6	6105.0
20°	4458.0	4469.1	4625.2	4546.7	4452.0
22.5°	3253.0	3293.1	3478.3	3276.1	3201.8
25°	2165.8	2247.8	2442.3	2190.6	2121.5
27.5°	1332.1	1369.7	1566.8	1315.0	1277.5
30°	828.6	809.8	902.9	774.9	721.9
32.5°	543.6	519.7	549.6	493.2	450.6
35°	363.5	371.2	348.2	345.6	291.9
37.5°	227.0	261.1	230.4	245.8	187.7
40°	146.8	189.4	163.0	180.1	138.2
42.5°	120.3	145.9	134.0	142.5	122.9
45°	95.6	118.6	118.6	118.6	96.4
47.5°	52.9	79.4	101.6	81.1	56.3
50°	29.9	40.1	78.5	41.8	31.6
52.5°	20.5	23.0	53.8	23.9	21.3
55°	15.4	16.2	29.0	17.1	16.2
57.5°	11.9	12.8	15.4	12.8	11.9
60°	9.4	9.4	11.1	10.2	9.4
62.5°	6.8	6.8	7.7	6.8	6.8
65°	5.1	5.1	5.1	5.1	5.1
67.5°	2.6	3.4	3.4	3.4	3.4
70°	2.6	1.7	1.7	1.7	2.6
72.5°	1.7	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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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