

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: P753842

Luminaire Tested: LD4D80BD010-EU4DR3070959050-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753842
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: LD4D80BD010-EU4DR3070959050-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

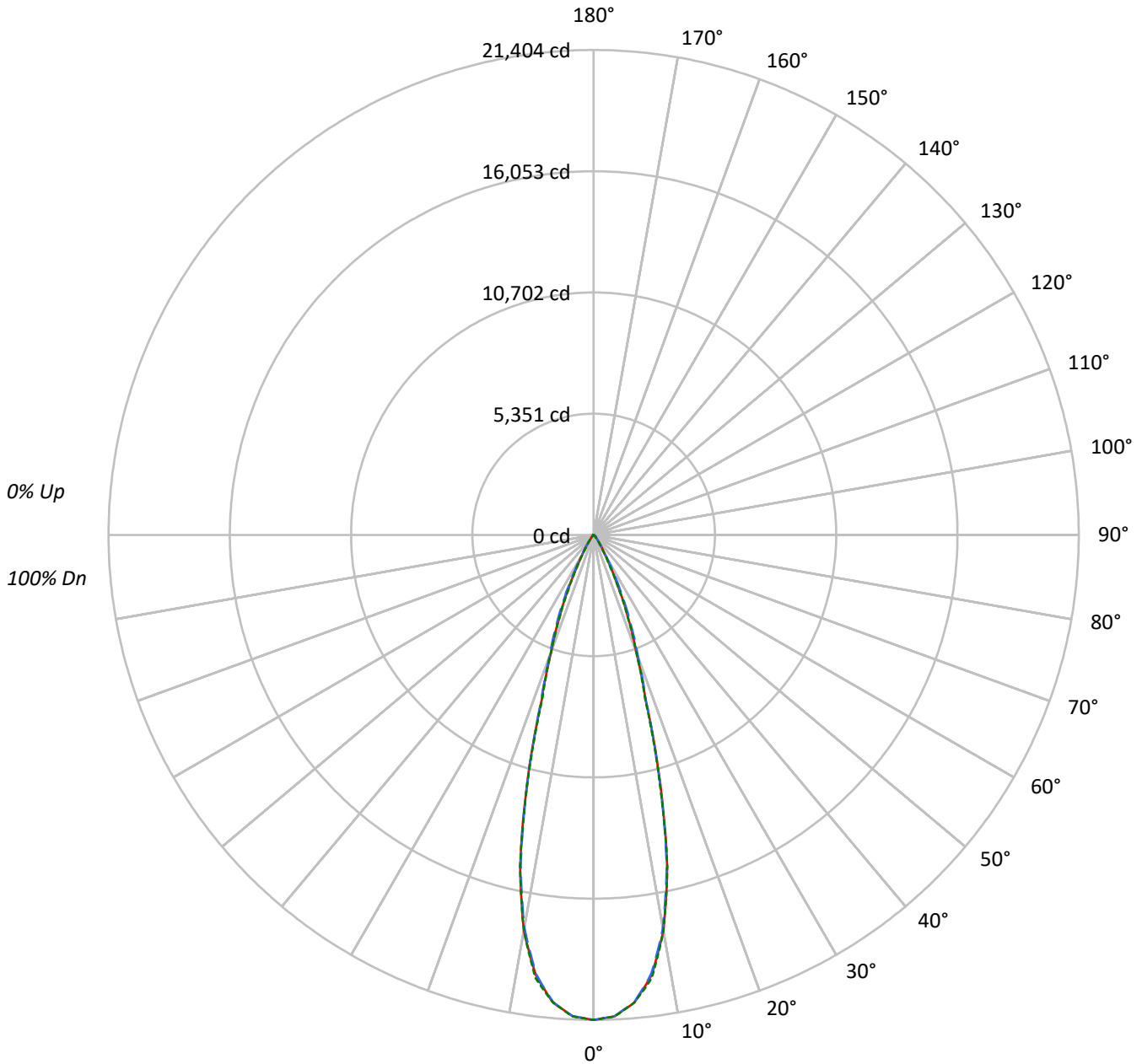
Lumens per Lamp: N/A
Luminaire Lumens: 6656.6 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 78.9
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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1638327	1638327	1638327
5°	1591292	1589440	1591377
10°	1378307	1368583	1377980
15°	899272	894446	889945
20°	447168	463948	446565
25°	225253	254011	220634
30°	90188	98266	78574
35°	41834	40068	33583
40°	18056	20054	17006
45°	12741	15815	12849
50°	4382	11515	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: 15815 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1882.1	28.3
10°-20°	3031.2	45.5
20°-30°	1309.9	19.7
30°-40°	298.5	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°	6223.2	93.5
0°-40°	6521.8	98.0
0°-60°	6649.4	99.9
0°-90°	6656.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6656.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21404	21404	21404	21404	21404	
5°	20710	20690	20686	20729	20711	1884
15°	11348	11212	11287	11250	11230	3039
25°	2667	2768	3008	2698	2612	1277
35°	448	457	429	426	359	304
45°	118	146	146	146	119	84
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°	21403.9	21403.9	21403.9	21403.9	21403.9
2.5°	21262.0	21247.3	21255.7	21266.3	21270.5
5°	20710.3	20690.4	20686.2	20729.3	20711.4
7.5°	19597.5	19569.1	19526.0	19623.8	19715.2
10°	17733.3	17701.7	17608.2	17654.4	17729.1
12.5°	14981.1	14879.1	14877.0	15024.1	15004.2
15°	11348.2	11211.6	11287.3	11250.5	11230.5
17.5°	7631.3	7578.8	7679.7	7649.2	7517.9
20°	5489.7	5503.4	5695.7	5599.0	5482.3
22.5°	4005.9	4055.3	4283.3	4034.3	3942.8
25°	2667.1	2768.0	3007.6	2697.6	2612.4
27.5°	1640.4	1686.6	1929.4	1619.4	1573.1
30°	1020.4	997.3	1111.8	954.2	889.0
32.5°	669.4	640.0	676.8	607.4	554.9
35°	447.7	457.1	428.8	425.6	359.4
37.5°	279.5	321.6	283.7	302.6	231.2
40°	180.7	233.3	200.7	221.7	170.2
42.5°	148.2	179.7	165.0	175.5	151.3
45°	117.7	146.1	146.1	146.1	118.7
47.5°	65.2	97.7	125.1	99.8	69.4
50°	36.8	49.4	96.7	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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