

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: P748382

Luminaire Tested: LD4D45BD010-EU4DR3040509050-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748382
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: LD4D45BD010-EU4DR3040509050-4LBSQW1MW
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

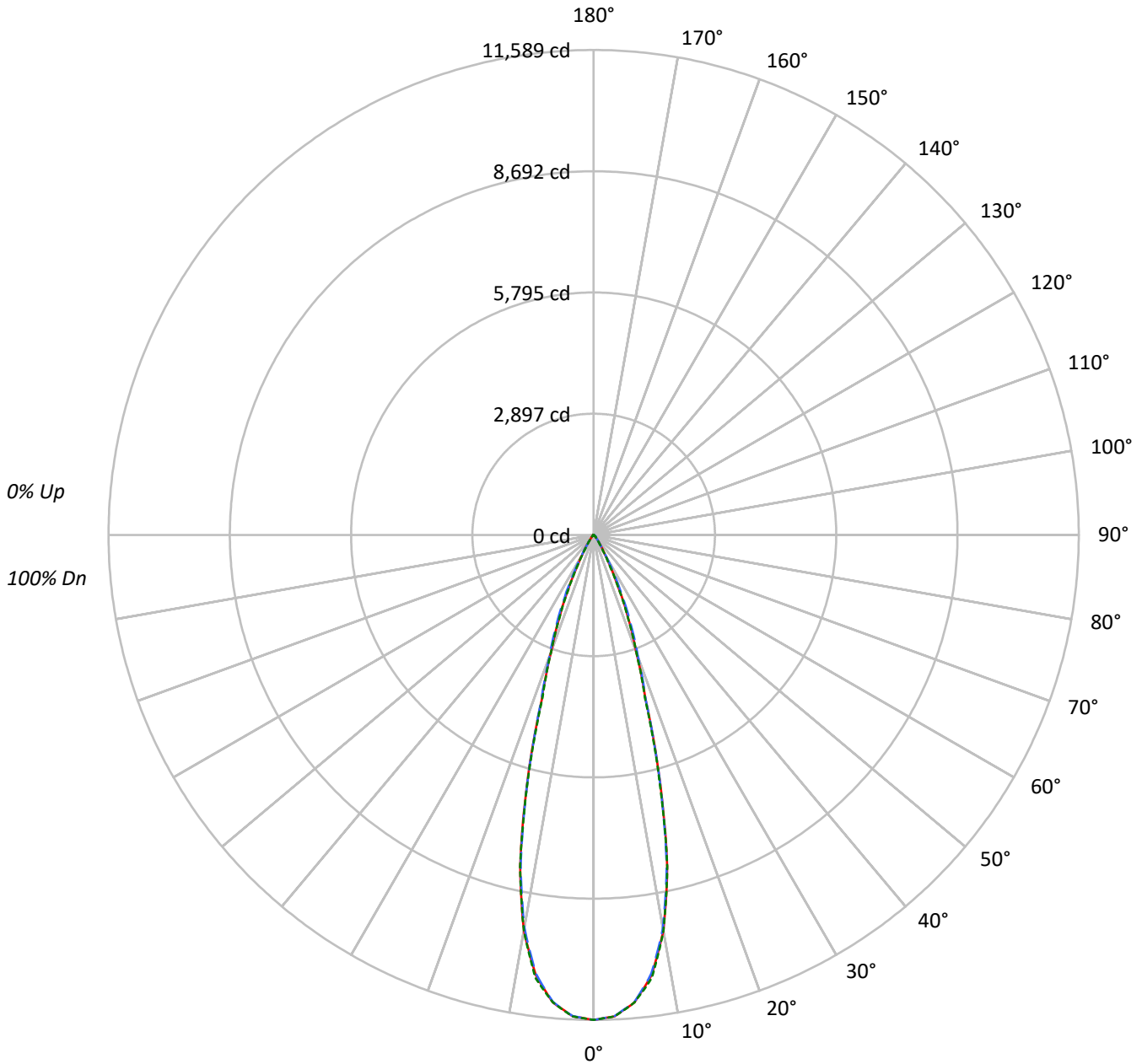
Lumens per Lamp: N/A
Luminaire Lumens: 3604.2 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 38.7
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					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°	887092	887092	887092
5°	861621	860622	861667
10°	746300	741038	746121
15°	486920	484305	481872
20°	242127	251210	241801
25°	121963	137537	119463
30°	48833	53208	42548
35°	22650	21697	18184
40°	9782	10861	9213
45°	6895	8562	6960
50°	2370	6228	2513
55°	1361	2576	1441
60°	964	1133	964
65°	616	616	616
70°	380	246	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8562 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1019.1	28.3
10°-20°	1641.3	45.5
20°-30°	709.2	19.7
30°-40°	161.7	4.5
40°-50°	55.5	1.5
50°-60°	13.5	0.4
60°-70°	3.5	0.1
70°-80°	0.4	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°	3369.6	93.5
0°-40°	3531.3	98.0
0°-60°	3600.3	99.9
0°-90°	3604.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3604.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11589	11589	11589	11589	11589	
5°	11214	11203	11201	11224	11214	1020
15°	6145	6071	6112	6092	6081	1645
25°	1444	1499	1628	1461	1414	691
35°	242	248	232	230	195	164
45°	64	79	79	79	64	45
55°	10	11	19	11	11	10
65°	3	3	3	3	3	3
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°	11589.4	11589.4	11589.4	11589.4	11589.4
2.5°	11512.6	11504.6	11509.2	11514.8	11517.1
5°	11213.8	11203.0	11200.8	11224.1	11214.4
7.5°	10611.3	10595.9	10572.6	10625.5	10675.0
10°	9601.9	9584.8	9534.2	9559.2	9599.6
12.5°	8111.7	8056.5	8055.3	8135.0	8124.2
15°	6144.6	6070.7	6111.6	6091.7	6080.9
17.5°	4132.1	4103.6	4158.2	4141.7	4070.6
20°	2972.5	2979.9	3084.0	3031.6	2968.5
22.5°	2169.0	2195.8	2319.2	2184.4	2134.9
25°	1444.1	1498.7	1628.5	1460.6	1414.5
27.5°	888.2	913.2	1044.7	876.8	851.8
30°	552.5	540.0	602.0	516.7	481.4
32.5°	362.5	346.5	366.4	328.9	300.4
35°	242.4	247.5	232.2	230.4	194.6
37.5°	151.4	174.1	153.6	163.9	125.2
40°	97.9	126.3	108.7	120.1	92.2
42.5°	80.2	97.3	89.3	95.0	81.9
45°	63.7	79.1	79.1	79.1	64.3
47.5°	35.3	52.9	67.7	54.1	37.6
50°	19.9	26.7	52.3	27.9	21.1
52.5°	13.7	15.4	35.8	15.9	14.2
55°	10.2	10.8	19.3	11.4	10.8
57.5°	8.0	8.5	10.2	8.5	8.0
60°	6.3	6.3	7.4	6.8	6.3
62.5°	4.6	4.6	5.1	4.6	4.6
65°	3.4	3.4	3.4	3.4	3.4
67.5°	1.7	2.3	2.3	2.3	2.3
70°	1.7	1.1	1.1	1.1	1.7
72.5°	1.1	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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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