

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: P748356

Luminaire Tested: LD4D45BD010-EU4DR3040509035-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748356
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-EU4DR3040509035-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

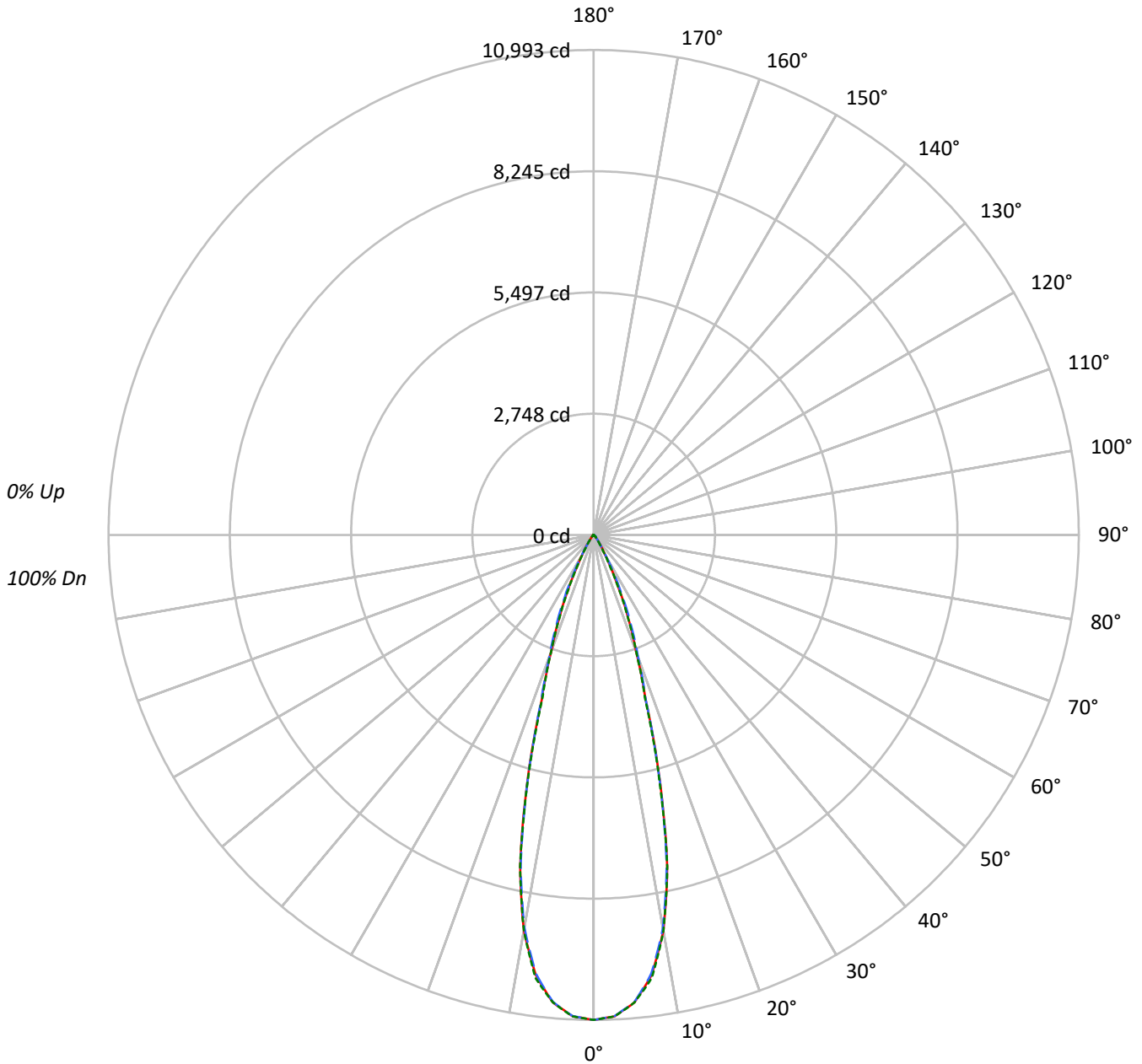
Lumens per Lamp: N/A
Luminaire Lumens: 3418.8 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): 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°	841457	841457	841457
5°	817302	816349	817348
10°	707912	702914	707741
15°	461879	459391	457085
20°	229673	238283	229363
25°	115688	130460	113323
30°	46322	50468	40356
35°	21482	20576	17249
40°	9273	10302	8733
45°	6538	8119	6603
50°	2251	5918	2382
55°	1294	2455	1375
60°	903	1072	903
65°	580	580	580
70°	358	246	358
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8119 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	966.7	28.3
10°-20°	1556.9	45.5
20°-30°	672.8	19.7
30°-40°	153.3	4.5
40°-50°	52.6	1.5
50°-60°	12.9	0.4
60°-70°	3.3	0.1
70°-80°	0.3	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°	3196.3	93.5
0°-40°	3349.6	98.0
0°-60°	3415.2	99.9
0°-90°	3418.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3418.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10993	10993	10993	10993	10993	
5°	10637	10627	10625	10647	10638	967
15°	5829	5758	5797	5778	5768	1561
25°	1370	1422	1545	1386	1342	656
35°	230	235	220	219	185	156
45°	60	75	75	75	61	43
55°	10	10	18	11	10	9
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	10993.2	10993.2	10993.2	10993.2	10993.2
2.5°	10920.4	10912.8	10917.1	10922.5	10924.7
5°	10637.0	10626.8	10624.6	10646.7	10637.6
7.5°	10065.4	10050.9	10028.7	10078.9	10125.9
10°	9108.0	9091.8	9043.7	9067.5	9105.8
12.5°	7694.4	7642.0	7641.0	7716.5	7706.3
15°	5828.6	5758.4	5797.2	5778.4	5768.1
17.5°	3919.5	3892.5	3944.4	3928.7	3861.2
20°	2819.6	2826.6	2925.3	2875.7	2815.8
22.5°	2057.5	2082.8	2199.9	2072.0	2025.1
25°	1369.8	1421.7	1544.7	1385.5	1341.8
27.5°	842.5	866.3	990.9	831.7	808.0
30°	524.1	512.2	571.0	490.1	456.6
32.5°	343.8	328.7	347.6	312.0	285.0
35°	229.9	234.8	220.2	218.6	184.6
37.5°	143.6	165.2	145.7	155.4	118.7
40°	92.8	119.8	103.1	113.9	87.4
42.5°	76.1	92.3	84.7	90.1	77.7
45°	60.4	75.0	75.0	75.0	61.0
47.5°	33.5	50.2	64.2	51.3	35.6
50°	18.9	25.4	49.7	26.4	20.0
52.5°	13.0	14.6	34.0	15.1	13.5
55°	9.7	10.3	18.4	10.8	10.3
57.5°	7.6	8.1	9.7	8.1	7.6
60°	5.9	5.9	7.0	6.5	5.9
62.5°	4.3	4.3	4.9	4.3	4.3
65°	3.2	3.2	3.2	3.2	3.2
67.5°	1.6	2.2	2.2	2.2	2.2
70°	1.6	1.1	1.1	1.1	1.6
72.5°	1.1	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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