

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: P755336

Luminaire Tested: LD4D90BD010-EU4DR3070959024-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755336
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: LD4D90BD010-EU4DR3070959024-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

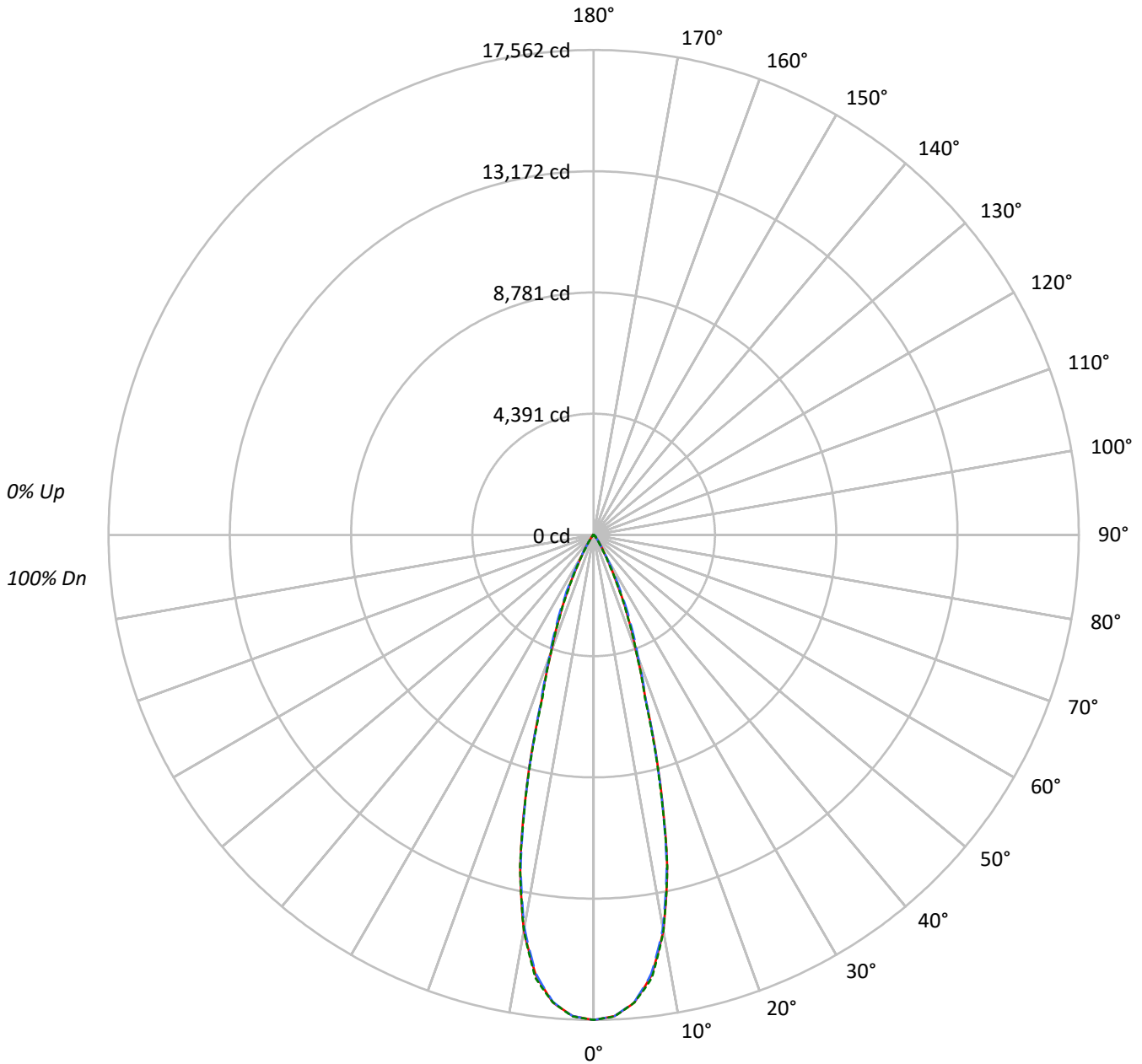
Lumens per Lamp: N/A
Luminaire Lumens: 5461.6 lumens
Efficiency: N/A
Efficacy: 55.2 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')

CIE Type: Direct
Input Watts (W): 98.9
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	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°	1344232	1344232	1344232
5°	1305640	1304118	1305701
10°	1130879	1122905	1130615
15°	737845	733882	730190
20°	366893	380659	366404
25°	184816	208413	181032
30°	73996	80625	64468
35°	34321	32873	27556
40°	14818	16457	13959
45°	10457	12968	10543
50°	3596	9443	3799
55°	2068	3910	2189
60°	1454	1715	1454
65°	942	942	942
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: 12968 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1544.3	28.3
10°-20°	2487.1	45.5
20°-30°	1074.7	19.7
30°-40°	245.0	4.5
40°-50°	84.1	1.5
50°-60°	20.5	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°	5106.1	93.5
0°-40°	5351.0	98.0
0°-60°	5455.7	99.9
0°-90°	5461.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5461.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17562	17562	17562	17562	17562	
5°	16993	16976	16973	17008	16993	1546
15°	9311	9199	9261	9231	9214	2493
25°	2188	2271	2468	2213	2144	1047
35°	367	375	352	349	295	249
45°	97	120	120	120	97	69
55°	16	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°	17561.7	17561.7	17561.7	17561.7	17561.7
2.5°	17445.3	17433.2	17440.1	17448.7	17452.1
5°	16992.6	16976.2	16972.8	17008.1	16993.4
7.5°	16079.5	16056.2	16020.9	16101.1	16176.1
10°	14549.9	14524.1	14447.3	14485.3	14546.5
12.5°	12291.8	12208.1	12206.4	12327.1	12310.7
15°	9311.1	9199.0	9261.1	9230.9	9214.5
17.5°	6261.4	6218.3	6301.1	6276.1	6168.3
20°	4504.2	4515.4	4673.2	4593.9	4498.2
22.5°	3286.8	3327.3	3514.4	3310.1	3235.0
25°	2188.3	2271.1	2467.7	2213.3	2143.5
27.5°	1345.9	1383.9	1583.0	1328.7	1290.7
30°	837.2	818.2	912.2	782.9	729.4
32.5°	549.2	525.1	555.3	498.4	455.3
35°	367.3	375.1	351.8	349.2	294.9
37.5°	229.3	263.8	232.8	248.3	189.7
40°	148.3	191.4	164.7	181.9	139.7
42.5°	121.6	147.4	135.4	144.0	124.2
45°	96.6	119.8	119.8	119.8	97.4
47.5°	53.5	80.2	102.6	81.9	56.9
50°	30.2	40.5	79.3	42.2	31.9
52.5°	20.7	23.3	54.3	24.1	21.6
55°	15.5	16.4	29.3	17.2	16.4
57.5°	12.1	12.9	15.5	12.9	12.1
60°	9.5	9.5	11.2	10.3	9.5
62.5°	6.9	6.9	7.8	6.9	6.9
65°	5.2	5.2	5.2	5.2	5.2
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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