

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: P746756

Luminaire Tested: LD4D35BD010-EU4DR3020359024-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746756
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: LD4D35BD010-EU4DR3020359024-4LBSQW1B
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

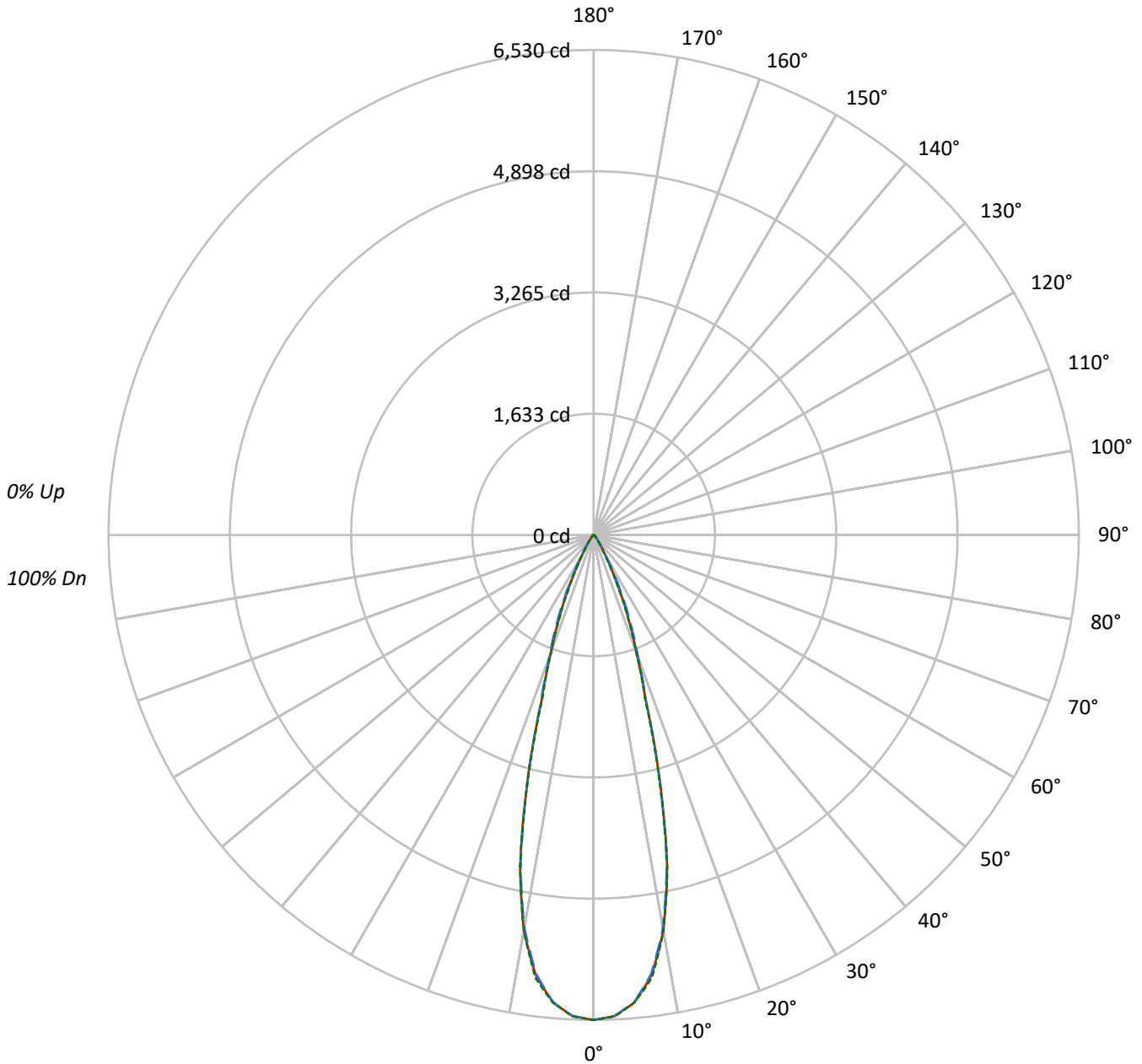
Lumens per Lamp: N/A
Luminaire Lumens: 2030.6 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')

CIE Type: Direct
Input Watts (W): 30.8
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°	499790	499790	499790
5°	485441	484872	485464
10°	420465	417496	420364
15°	274333	272859	271488
20°	136414	141529	136227
25°	68714	77489	67303
30°	27514	29980	23970
35°	12764	12222	10241
40°	5506	6115	5186
45°	3886	4828	3919
50°	1334	3513	1417
55°	774	1455	814
60°	536	643	536
65°	344	344	344
70°	224	134	224
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4828 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.2	28.3
10°-20°	924.7	45.5
20°-30°	399.6	19.7
30°-40°	91.1	4.5
40°-50°	31.3	1.5
50°-60°	7.6	0.4
60°-70°	2.0	0.1
70°-80°	0.2	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°	1898.5	93.5
0°-40°	1989.5	98.0
0°-60°	2028.4	99.9
0°-90°	2030.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2030.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6530	6530	6530	6530	6530	
5°	6318	6312	6310	6324	6318	575
15°	3462	3420	3443	3432	3426	927
25°	814	844	918	823	797	389
35°	137	139	131	130	110	93
45°	36	45	45	45	36	25
55°	6	6	11	6	6	6
65°	2	2	2	2	2	2
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°	6529.5	6529.5	6529.5	6529.5	6529.5
2.5°	6486.2	6481.7	6484.2	6487.5	6488.7
5°	6317.9	6311.8	6310.5	6323.6	6318.2
7.5°	5978.4	5969.7	5956.6	5986.4	6014.3
10°	5409.7	5400.1	5371.5	5385.6	5408.4
12.5°	4570.1	4539.0	4538.4	4583.2	4577.2
15°	3461.9	3420.2	3443.3	3432.1	3426.0
17.5°	2328.0	2312.0	2342.8	2333.5	2293.4
20°	1674.7	1678.8	1737.5	1708.0	1672.4
22.5°	1222.0	1237.1	1306.7	1230.7	1202.8
25°	813.6	844.4	917.5	822.9	796.9
27.5°	500.4	514.5	588.6	494.0	479.9
30°	311.3	304.2	339.2	291.1	271.2
32.5°	204.2	195.2	206.4	185.3	169.3
35°	136.6	139.4	130.8	129.8	109.6
37.5°	85.3	98.1	86.6	92.3	70.5
40°	55.1	71.2	61.2	67.6	51.9
42.5°	45.2	54.8	50.3	53.5	46.2
45°	35.9	44.6	44.6	44.6	36.2
47.5°	19.9	29.8	38.1	30.5	21.2
50°	11.2	15.1	29.5	15.7	11.9
52.5°	7.7	8.7	20.2	9.0	8.0
55°	5.8	6.1	10.9	6.4	6.1
57.5°	4.5	4.8	5.8	4.8	4.5
60°	3.5	3.5	4.2	3.8	3.5
62.5°	2.6	2.6	2.9	2.6	2.6
65°	1.9	1.9	1.9	1.9	1.9
67.5°	1.0	1.3	1.3	1.3	1.3
70°	1.0	0.6	0.6	0.6	1.0
72.5°	0.6	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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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