

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: P747562

Luminaire Tested: LD4D40BD010-EU4DR3040509030-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747562
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: LD4D40BD010-EU4DR3040509030-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

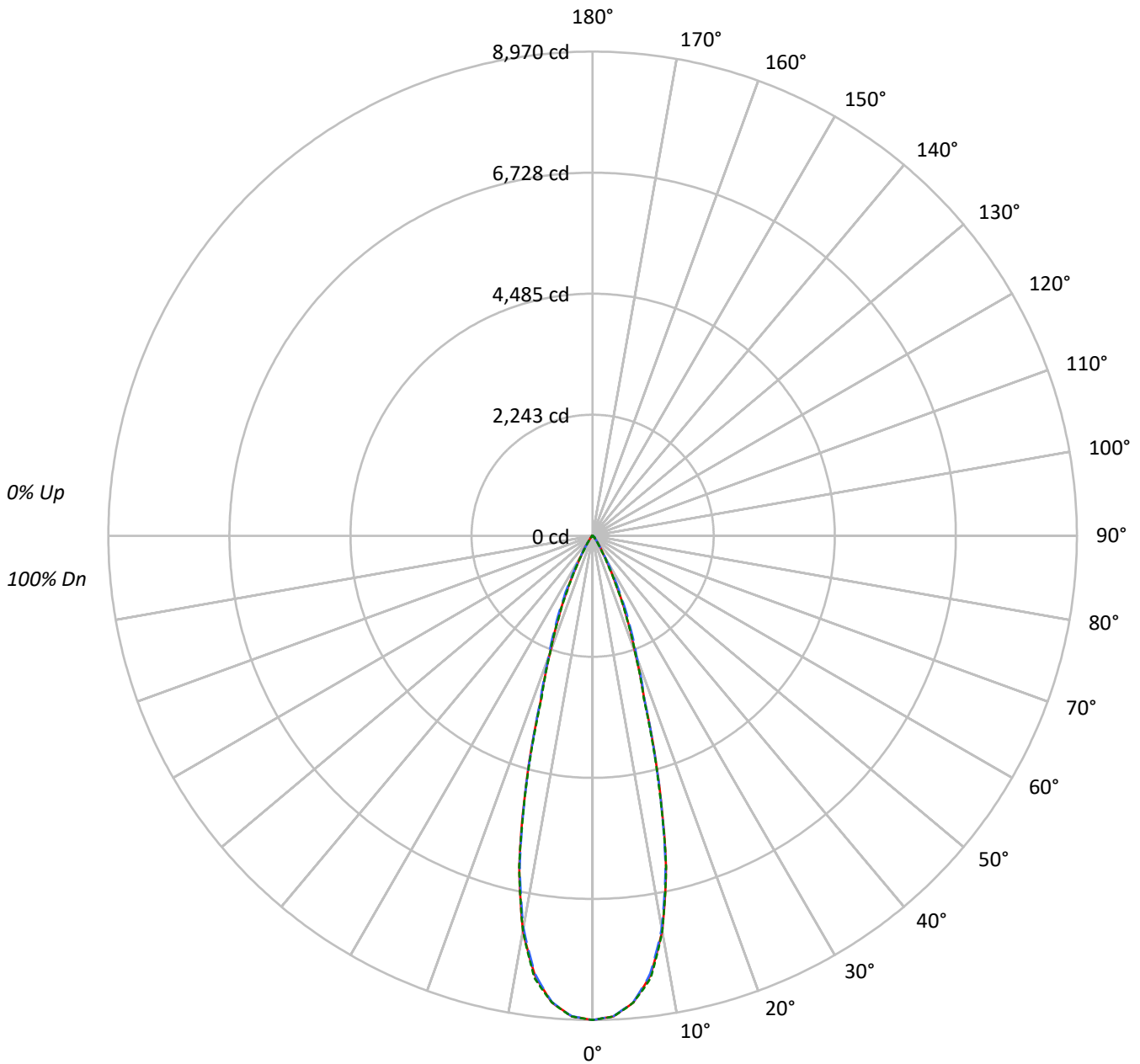
Lumens per Lamp: N/A
Luminaire Lumens: 2789.7 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
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°	686617	686617	686617
5°	666904	666128	666935
10°	577638	573566	577506
15°	376882	374854	372976
20°	187405	194435	187153
25°	94405	106457	92471
30°	37793	41187	32932
35°	17530	16792	14072
40°	7574	8403	7124
45°	5337	6625	5391
50°	1834	4823	1941
55°	1054	2002	1121
60°	735	873	735
65°	471	471	471
70°	291	201	291
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6625 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	788.8	28.3
10°-20°	1270.4	45.5
20°-30°	549.0	19.7
30°-40°	125.1	4.5
40°-50°	43.0	1.5
50°-60°	10.5	0.4
60°-70°	2.7	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°	2608.1	93.5
0°-40°	2733.2	98.0
0°-60°	2786.7	99.9
0°-90°	2789.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2789.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8970	8970	8970	8970	8970	
5°	8680	8671	8670	8688	8680	789
15°	4756	4699	4730	4715	4707	1273
25°	1118	1160	1260	1130	1095	535
35°	188	192	180	178	151	127
45°	49	61	61	61	50	35
55°	8	8	15	9	8	8
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°	8970.3	8970.3	8970.3	8970.3	8970.3
2.5°	8910.8	8904.6	8908.2	8912.6	8914.3
5°	8679.6	8671.2	8669.5	8687.5	8680.0
7.5°	8213.2	8201.3	8183.3	8224.2	8262.5
10°	7431.9	7418.7	7379.5	7398.9	7430.2
12.5°	6278.5	6235.8	6234.9	6296.5	6288.2
15°	4756.0	4698.7	4730.4	4715.0	4706.7
17.5°	3198.3	3176.2	3218.5	3205.7	3150.7
20°	2300.7	2306.4	2387.0	2346.5	2297.6
22.5°	1678.8	1699.5	1795.1	1690.7	1652.4
25°	1117.8	1160.0	1260.5	1130.5	1094.9
27.5°	687.5	706.9	808.6	678.7	659.3
30°	427.6	417.9	466.0	399.9	372.6
32.5°	280.5	268.2	283.6	254.6	232.5
35°	187.6	191.6	179.7	178.4	150.6
37.5°	117.1	134.8	118.9	126.8	96.9
40°	75.8	97.8	84.1	92.9	71.3
42.5°	62.1	75.3	69.1	73.5	63.4
45°	49.3	61.2	61.2	61.2	49.8
47.5°	27.3	41.0	52.4	41.8	29.1
50°	15.4	20.7	40.5	21.6	16.3
52.5°	10.6	11.9	27.7	12.3	11.0
55°	7.9	8.4	15.0	8.8	8.4
57.5°	6.2	6.6	7.9	6.6	6.2
60°	4.8	4.8	5.7	5.3	4.8
62.5°	3.5	3.5	4.0	3.5	3.5
65°	2.6	2.6	2.6	2.6	2.6
67.5°	1.3	1.8	1.8	1.8	1.8
70°	1.3	0.9	0.9	0.9	1.3
72.5°	0.9	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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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