

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: P754608

Luminaire Tested: LD4D85BD010-EU4DR3070959040-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754608
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: LD4D85BD010-EU4DR3070959040-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

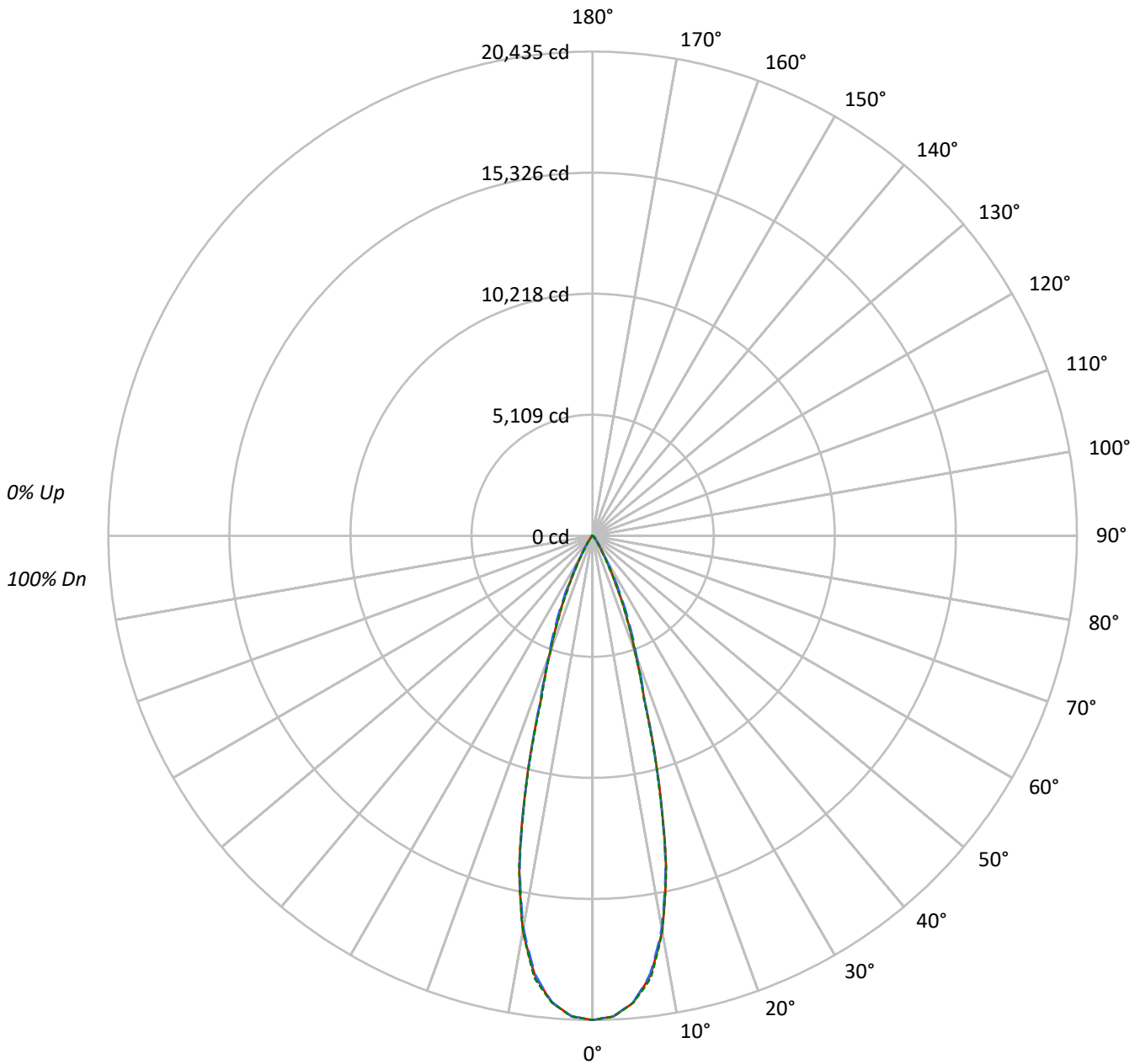
Lumens per Lamp: N/A
Luminaire Lumens: 6355.2 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 87.7
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									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°	1564172	1564172	1564172
5°	1519266	1517491	1519343
10°	1315917	1306637	1315606
15°	858572	853960	849665
20°	426926	442940	426356
25°	215060	242508	210651
30°	86104	93820	75021
35°	39937	38246	32060
40°	17246	19145	16237
45°	12167	15101	12275
50°	4180	10991	4418
55°	2415	4551	2549
60°	1684	1990	1684
65°	1087	1087	1087
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 15101 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1797.0	28.3
10°-20°	2894.0	45.5
20°-30°	1250.6	19.7
30°-40°	285.0	4.5
40°-50°	97.9	1.5
50°-60°	23.9	0.4
60°-70°	6.2	0.1
70°-80°	0.7	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°	5941.5	93.5
0°-40°	6226.6	98.0
0°-60°	6348.4	99.9
0°-90°	6355.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6355.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20435	20435	20435	20435	20435	
5°	19773	19754	19750	19791	19774	1798
15°	10835	10704	10776	10741	10722	2901
25°	2546	2643	2871	2576	2494	1219
35°	427	436	409	406	343	290
45°	112	140	140	140	113	80
55°	18	19	34	20	19	18
65°	6	6	6	6	6	6
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°	20435.1	20435.1	20435.1	20435.1	20435.1
2.5°	20299.6	20285.6	20293.6	20303.6	20307.7
5°	19772.9	19753.8	19749.8	19791.0	19773.9
7.5°	18710.4	18683.3	18642.2	18735.5	18822.8
10°	16930.6	16900.5	16811.2	16855.3	16926.6
12.5°	14302.9	14205.6	14203.6	14344.1	14325.0
15°	10834.6	10704.1	10776.4	10741.3	10722.2
17.5°	7285.9	7235.8	7332.1	7303.0	7177.6
20°	5241.2	5254.2	5437.8	5345.5	5234.2
22.5°	3824.6	3871.7	4089.4	3851.6	3764.4
25°	2546.4	2642.7	2871.4	2575.5	2494.2
27.5°	1566.1	1610.3	1842.0	1546.1	1501.9
30°	974.2	952.1	1061.5	911.0	848.8
32.5°	639.1	611.0	646.1	579.9	529.7
35°	427.4	436.4	409.3	406.3	343.1
37.5°	266.9	307.0	270.9	288.9	220.7
40°	172.6	222.7	191.6	211.7	162.5
42.5°	141.5	171.6	157.5	167.5	144.5
45°	112.4	139.5	139.5	139.5	113.4
47.5°	62.2	93.3	119.4	95.3	66.2
50°	35.1	47.2	92.3	49.2	37.1
52.5°	24.1	27.1	63.2	28.1	25.1
55°	18.1	19.1	34.1	20.1	19.1
57.5°	14.0	15.0	18.1	15.0	14.0
60°	11.0	11.0	13.0	12.0	11.0
62.5°	8.0	8.0	9.0	8.0	8.0
65°	6.0	6.0	6.0	6.0	6.0
67.5°	3.0	4.0	4.0	4.0	4.0
70°	3.0	2.0	2.0	2.0	3.0
72.5°	2.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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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