

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: P773439

Luminaire Tested: LD6D90BD010-EU6DR3070959035-6LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P773439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD6D90BD010-EU6DR3070959035-6LBSQW1B
Description: 6 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

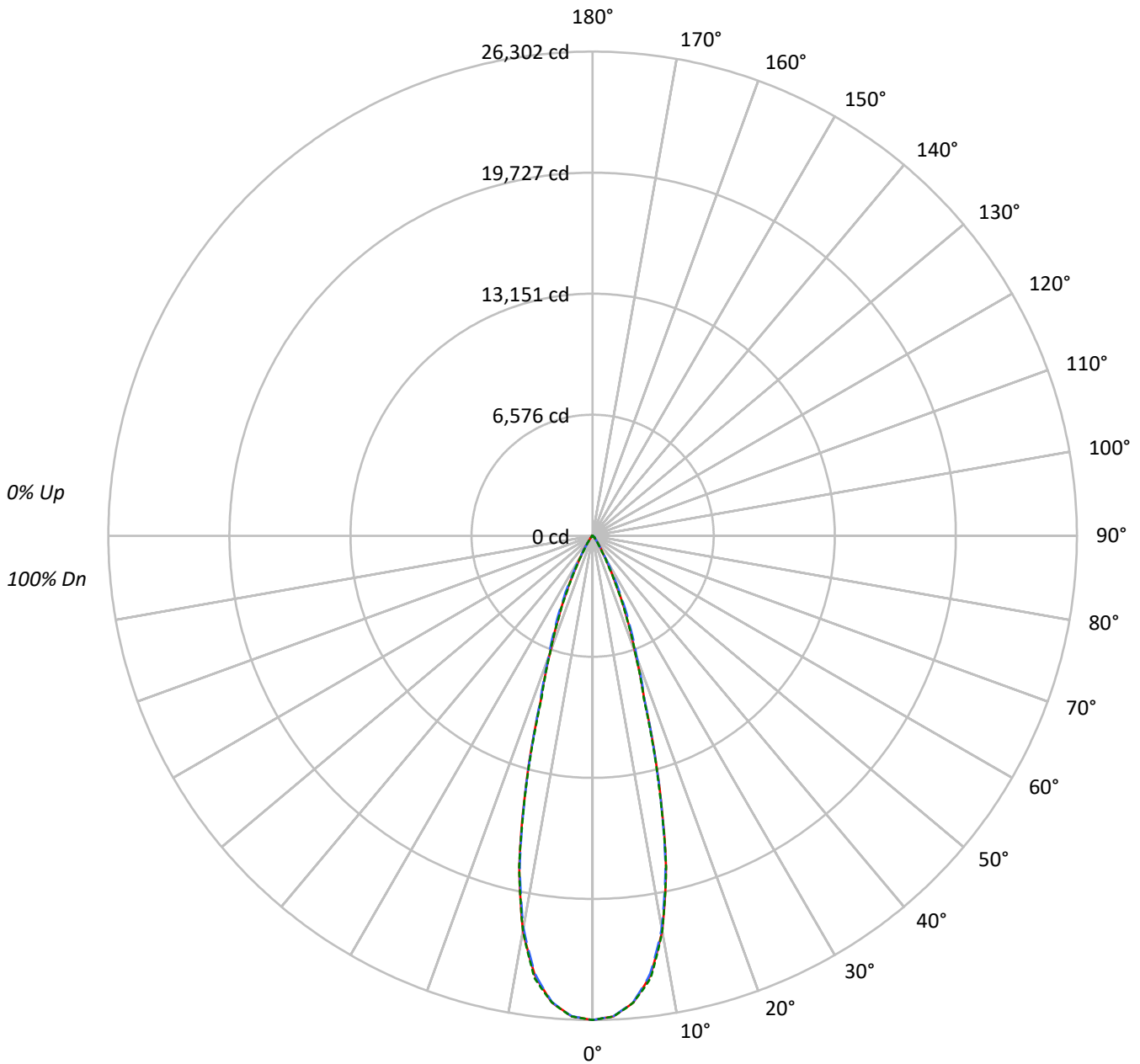
Lumens per Lamp: N/A
Luminaire Lumens: 8179.9 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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°	2013275	2013275	2013275
5°	1955478	1953196	1955578
10°	1693742	1681796	1693338
15°	1105083	1099148	1093617
20°	549509	570125	548768
25°	276805	312142	271130
30°	110826	120760	96560
35°	51403	49235	41264
40°	22192	24640	20903
45°	15653	19431	15793
50°	5382	14147	5692
55°	3096	5858	3270
60°	2174	2572	2174
65°	1395	1395	1395
70°	873	582	873
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 19431 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2312.9	28.3
10°-20°	3724.9	45.5
20°-30°	1609.6	19.7
30°-40°	366.9	4.5
40°-50°	126.0	1.5
50°-60°	30.8	0.4
60°-70°	8.0	0.1
70°-80°	0.8	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°	7647.5	93.5
0°-40°	8014.4	98.0
0°-60°	8171.1	99.9
0°-90°	8179.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8179.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26302	26302	26302	26302	26302	
5°	25450	25426	25420	25473	25451	2315
15°	13945	13778	13870	13825	13801	3734
25°	3278	3401	3696	3315	3210	1569
35°	550	562	527	523	442	373
45°	145	180	180	180	146	103
55°	23	24	44	26	24	23
65°	8	8	8	8	8	8
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°	26302.4	26302.4	26302.4	26302.4	26302.4
2.5°	26128.1	26110.0	26120.3	26133.2	26138.4
5°	25450.1	25425.6	25420.4	25473.3	25451.4
7.5°	24082.5	24047.7	23994.7	24114.8	24227.2
10°	21791.7	21752.9	21638.0	21694.8	21786.5
12.5°	18409.6	18284.3	18281.8	18462.6	18438.0
15°	13945.4	13777.5	13870.5	13825.3	13800.7
17.5°	9377.8	9313.3	9437.2	9399.8	9238.4
20°	6746.1	6762.8	6999.2	6880.4	6737.0
22.5°	4922.7	4983.4	5263.6	4957.5	4845.2
25°	3277.5	3401.4	3695.9	3314.9	3210.3
27.5°	2015.8	2072.6	2370.9	1990.0	1933.2
30°	1253.9	1225.5	1366.3	1172.6	1092.5
32.5°	822.6	786.4	831.6	746.4	681.8
35°	550.1	561.7	526.9	523.0	441.6
37.5°	343.5	395.2	348.7	371.9	284.1
40°	222.1	286.7	246.6	272.5	209.2
42.5°	182.1	220.8	202.7	215.7	186.0
45°	144.6	179.5	179.5	179.5	145.9
47.5°	80.1	120.1	153.7	122.7	85.2
50°	45.2	60.7	118.8	63.3	47.8
52.5°	31.0	34.9	81.4	36.2	32.3
55°	23.2	24.5	43.9	25.8	24.5
57.5°	18.1	19.4	23.2	19.4	18.1
60°	14.2	14.2	16.8	15.5	14.2
62.5°	10.3	10.3	11.6	10.3	10.3
65°	7.7	7.7	7.7	7.7	7.7
67.5°	3.9	5.2	5.2	5.2	5.2
70°	3.9	2.6	2.6	2.6	3.9
72.5°	2.6	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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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