

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: P772659

Luminaire Tested: LD6D85BD010-EU6DR3070959035-6LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772659
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: LD6D85BD010-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

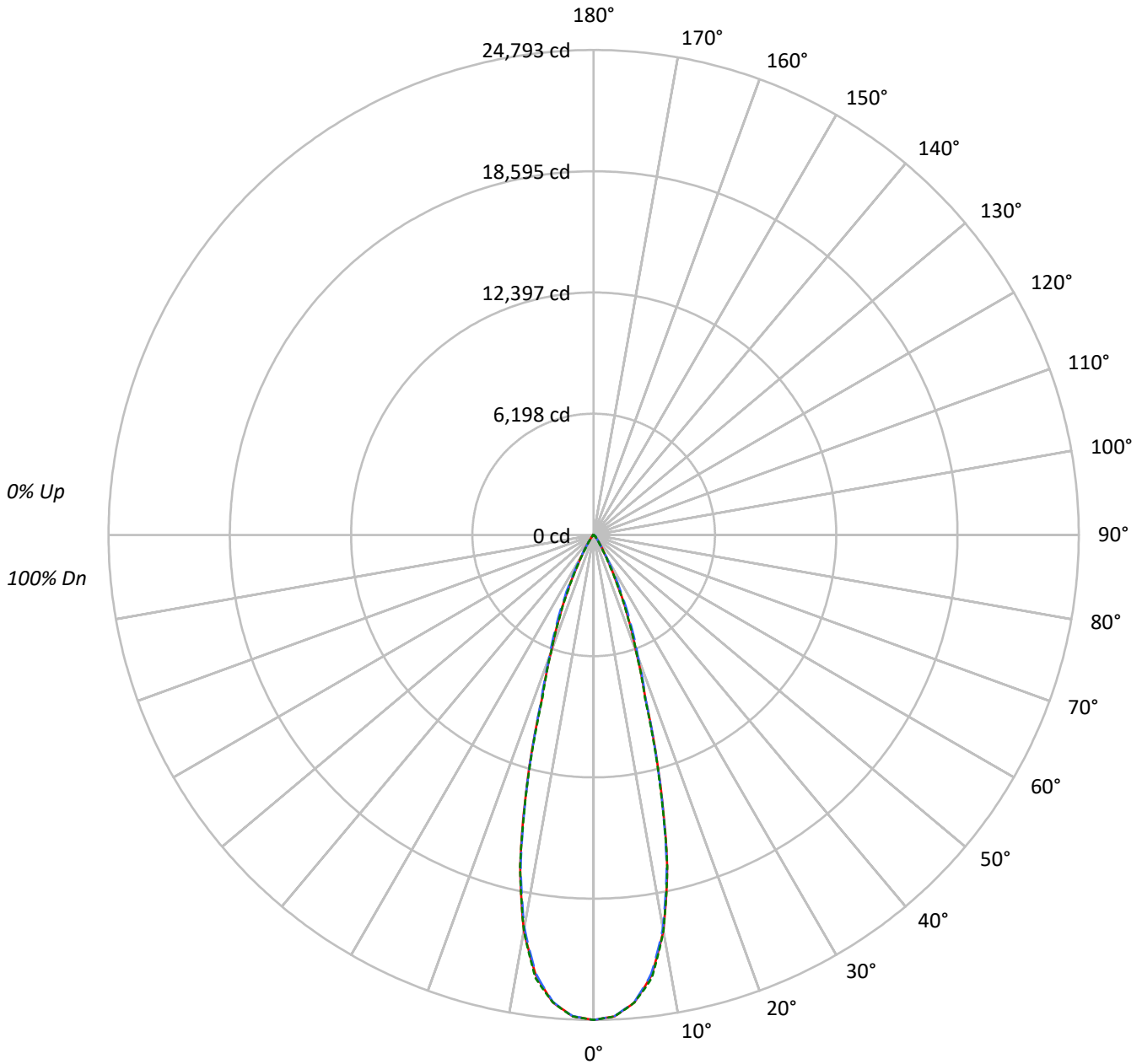
Lumens per Lamp: N/A
Luminaire Lumens: 7710.6 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): 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°	1897771	1897771	1897771
5°	1843290	1841139	1843383
10°	1596572	1585309	1596191
15°	1041680	1036086	1030879
20°	517977	537413	517285
25°	260919	294229	255573
30°	104471	113831	91019
35°	48459	46403	38900
40°	20923	23231	19704
45°	14754	18316	14895
50°	5073	13337	5359
55°	2923	5525	3083
60°	2051	2419	2051
65°	1322	1322	1322
70°	828	537	828
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 18316 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2180.2	28.3
10°-20°	3511.2	45.5
20°-30°	1517.3	19.7
30°-40°	345.8	4.5
40°-50°	118.7	1.5
50°-60°	29.0	0.4
60°-70°	7.5	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°	7208.7	93.5
0°-40°	7554.6	98.0
0°-60°	7702.3	99.9
0°-90°	7710.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7710.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24793	24793	24793	24793	24793	
5°	23990	23967	23962	24012	23991	2182
15°	13145	12987	13075	13032	13009	3520
25°	3089	3206	3484	3125	3026	1479
35°	519	530	497	493	416	352
45°	136	169	169	169	138	97
55°	22	23	41	24	23	21
65°	7	7	7	7	7	7
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°	24793.4	24793.4	24793.4	24793.4	24793.4
2.5°	24629.1	24612.0	24621.8	24633.9	24638.8
5°	23990.0	23966.9	23962.0	24011.9	23991.2
7.5°	22700.9	22668.1	22618.1	22731.3	22837.3
10°	20541.5	20505.0	20396.6	20450.2	20536.6
12.5°	17353.4	17235.4	17232.9	17403.3	17380.2
15°	13145.3	12987.1	13074.7	13032.1	13009.0
17.5°	8839.8	8779.0	8895.8	8860.5	8708.4
20°	6359.0	6374.9	6597.6	6485.6	6350.5
22.5°	4640.2	4697.5	4961.6	4673.1	4567.2
25°	3089.4	3206.3	3483.8	3124.7	3026.1
27.5°	1900.2	1953.7	2234.9	1875.8	1822.3
30°	1182.0	1155.2	1287.9	1105.3	1029.8
32.5°	775.4	741.3	783.9	703.6	642.7
35°	518.6	529.5	496.6	493.0	416.3
37.5°	323.8	372.5	328.7	350.6	267.8
40°	209.4	270.2	232.5	256.8	197.2
42.5°	171.6	208.2	191.1	203.3	175.3
45°	136.3	169.2	169.2	169.2	137.6
47.5°	75.5	113.2	144.9	115.6	80.3
50°	42.6	57.2	112.0	59.6	45.0
52.5°	29.2	32.9	76.7	34.1	30.4
55°	21.9	23.1	41.4	24.3	23.1
57.5°	17.0	18.3	21.9	18.3	17.0
60°	13.4	13.4	15.8	14.6	13.4
62.5°	9.7	9.7	11.0	9.7	9.7
65°	7.3	7.3	7.3	7.3	7.3
67.5°	3.7	4.9	4.9	4.9	4.9
70°	3.7	2.4	2.4	2.4	3.7
72.5°	2.4	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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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