

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: P766406

Luminaire Tested: LD6D45BD010-EU6DR3040509030-6LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P766406
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: LD6D45BD010-EU6DR3040509030-6LBSQW1B
Description: 6 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

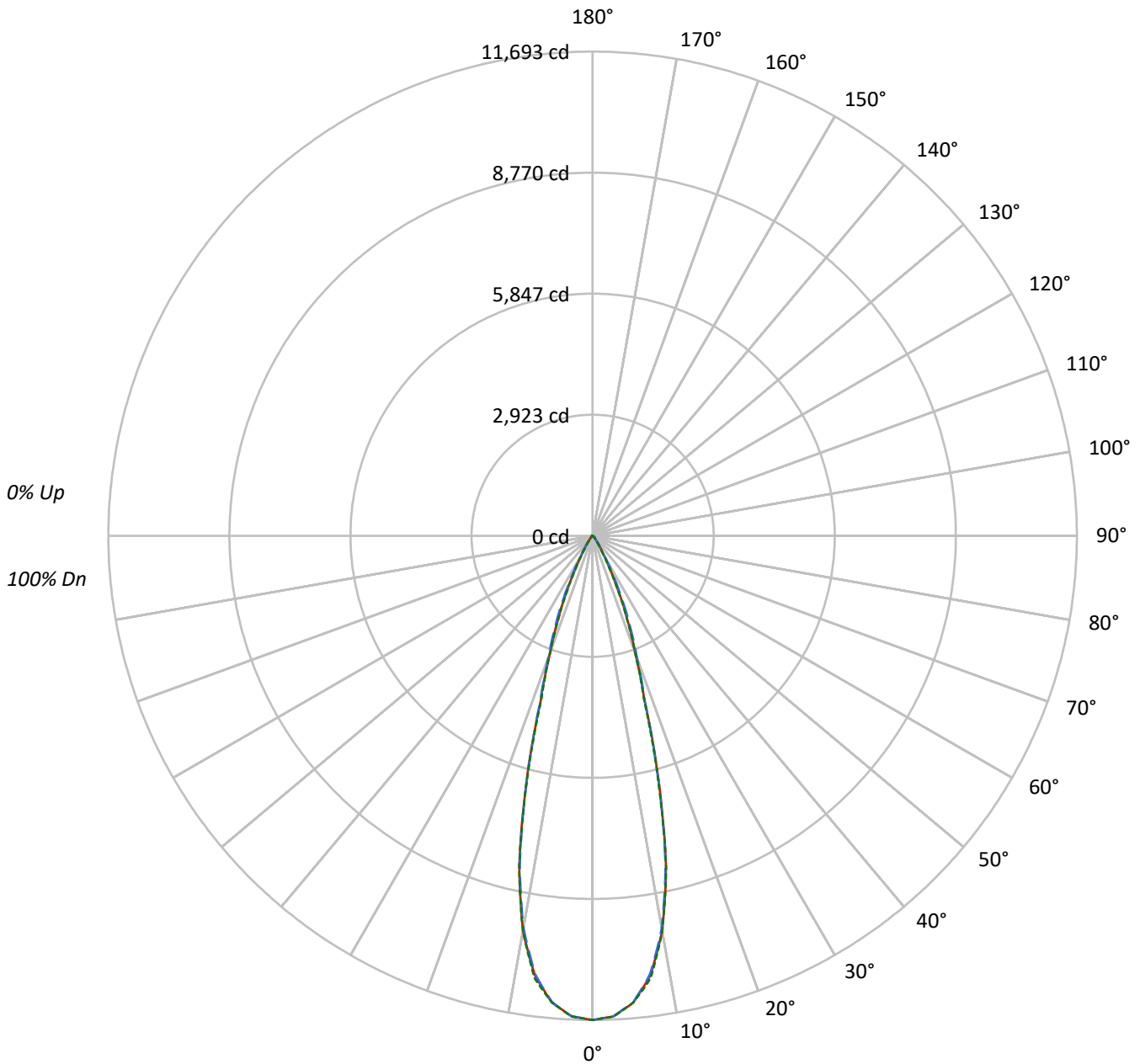
Lumens per Lamp: N/A
Luminaire Lumens: 3636.4 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 38.7
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					70					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								
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°	895014	895014	895014
5°	869320	868306	869358
10°	752961	747652	752782
15°	491270	488632	486175
20°	244286	253450	243960
25°	123053	138762	120536
30°	49266	53685	42928
35°	22856	21884	18343
40°	9862	10951	9293
45°	6960	8638	7025
50°	2394	6287	2525
55°	1375	2602	1455
60°	964	1148	964
65°	616	616	616
70°	380	246	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 8638 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1028.2	28.3
10°-20°	1655.9	45.5
20°-30°	715.6	19.7
30°-40°	163.1	4.5
40°-50°	56.0	1.5
50°-60°	13.7	0.4
60°-70°	3.5	0.1
70°-80°	0.4	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°	3399.7	93.5
0°-40°	3562.8	98.0
0°-60°	3632.5	99.9
0°-90°	3636.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3636.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11693	11693	11693	11693	11693	
5°	11314	11303	11301	11324	11314	1029
15°	6200	6125	6166	6146	6135	1660
25°	1457	1512	1643	1474	1427	697
35°	245	250	234	232	196	166
45°	64	80	80	80	65	46
55°	10	11	20	12	11	10
65°	3	3	3	3	3	3
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°	11692.9	11692.9	11692.9	11692.9	11692.9
2.5°	11615.4	11607.3	11611.9	11617.7	11620.0
5°	11314.0	11303.1	11300.8	11324.3	11314.5
7.5°	10706.0	10690.5	10667.0	10720.4	10770.3
10°	9687.6	9670.4	9619.3	9644.5	9685.3
12.5°	8184.1	8128.4	8127.3	8207.6	8196.7
15°	6199.5	6124.9	6166.2	6146.1	6135.2
17.5°	4169.0	4140.3	4195.4	4178.7	4107.0
20°	2999.0	3006.5	3111.5	3058.7	2995.0
22.5°	2188.4	2215.4	2340.0	2203.9	2153.9
25°	1457.0	1512.1	1643.0	1473.7	1427.2
27.5°	896.1	921.4	1054.0	884.7	859.4
30°	557.4	544.8	607.4	521.3	485.7
32.5°	365.7	349.6	369.7	331.8	303.1
35°	244.6	249.7	234.2	232.5	196.3
37.5°	152.7	175.7	155.0	165.3	126.3
40°	98.7	127.4	109.6	121.1	93.0
42.5°	80.9	98.2	90.1	95.9	82.7
45°	64.3	79.8	79.8	79.8	64.9
47.5°	35.6	53.4	68.3	54.5	37.9
50°	20.1	27.0	52.8	28.1	21.2
52.5°	13.8	15.5	36.2	16.1	14.4
55°	10.3	10.9	19.5	11.5	10.9
57.5°	8.0	8.6	10.3	8.6	8.0
60°	6.3	6.3	7.5	6.9	6.3
62.5°	4.6	4.6	5.2	4.6	4.6
65°	3.4	3.4	3.4	3.4	3.4
67.5°	1.7	2.3	2.3	2.3	2.3
70°	1.7	1.1	1.1	1.1	1.7
72.5°	1.1	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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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