

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: P766420

Luminaire Tested: LD6D45BD010-EU6DR3040509035-6LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P766420
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-EU6DR3040509035-6LBSQW1MW
Description: 6 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

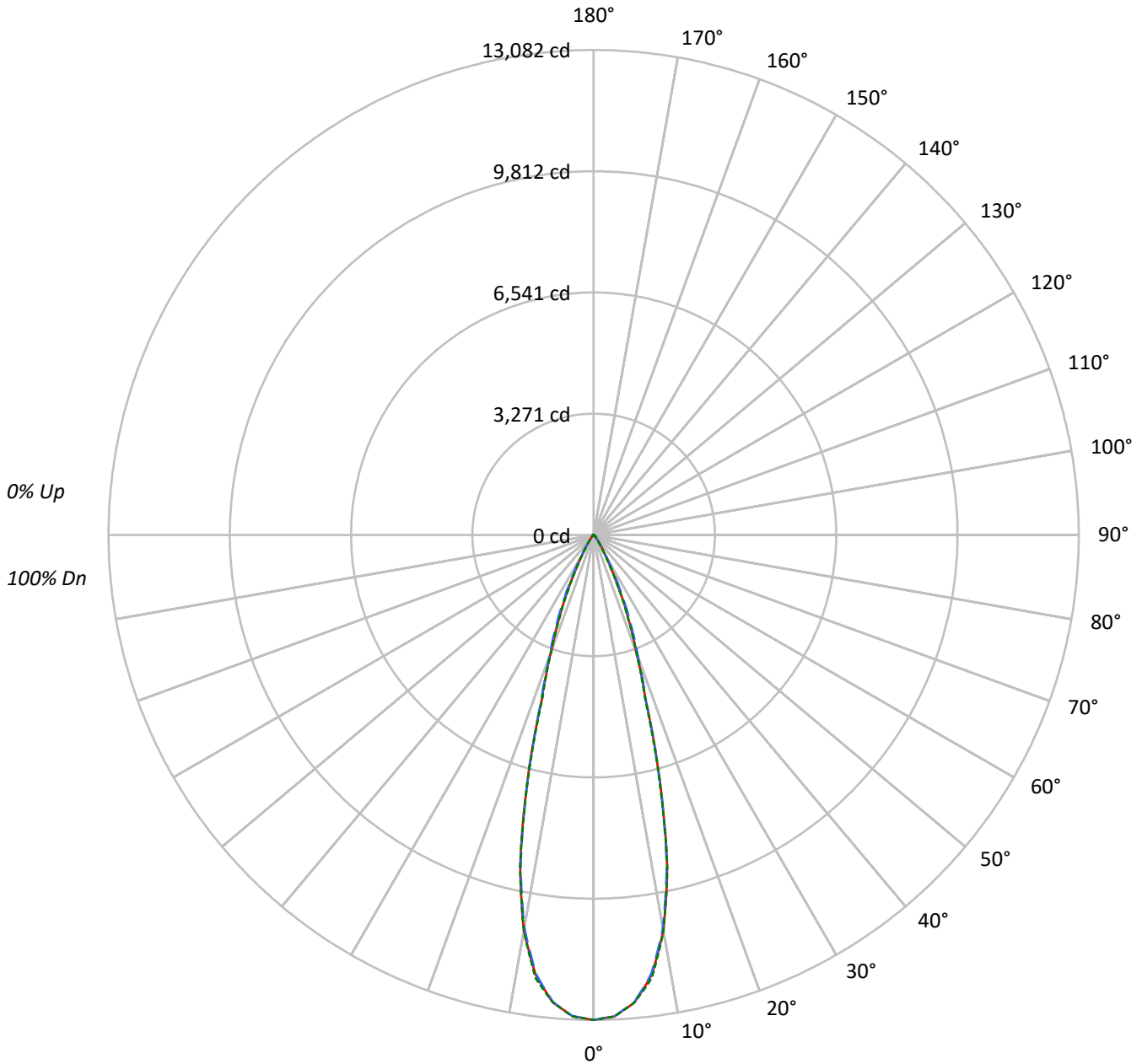
Lumens per Lamp: N/A
Luminaire Lumens: 4068.4 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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									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						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1001333	1001333	1001333
5°	972587	971458	972641
10°	842414	836468	842212
15°	549633	546678	543928
20°	273309	283564	272942
25°	137672	155248	134851
30°	55126	60057	48028
35°	25566	24491	20529
40°	11041	12260	10392
45°	7783	9667	7859
50°	2679	7038	2834
55°	1548	2909	1628
60°	1087	1271	1087
65°	706	706	706
70°	425	291	425
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9667 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1150.4	28.3
10°-20°	1852.7	45.5
20°-30°	800.6	19.7
30°-40°	182.5	4.5
40°-50°	62.7	1.5
50°-60°	15.3	0.4
60°-70°	4.0	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°	3803.6	93.5
0°-40°	3986.1	98.0
0°-60°	4064.0	99.9
0°-90°	4068.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4068.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13082	13082	13082	13082	13082	
5°	12658	12646	12643	12670	12659	1151
15°	6936	6852	6899	6876	6864	1857
25°	1630	1692	1838	1649	1597	780
35°	274	279	262	260	220	186
45°	72	89	89	89	73	51
55°	12	12	22	13	12	11
65°	4	4	4	4	4	4
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°	13081.9	13081.9	13081.9	13081.9	13081.9
2.5°	12995.2	12986.2	12991.4	12997.8	13000.4
5°	12658.0	12645.8	12643.3	12669.6	12658.7
7.5°	11977.9	11960.5	11934.2	11993.9	12049.8
10°	10838.5	10819.2	10762.0	10790.3	10835.9
12.5°	9156.3	9094.0	9092.8	9182.7	9170.5
15°	6936.0	6852.5	6898.7	6876.2	6864.0
17.5°	4664.2	4632.1	4693.8	4675.2	4594.9
20°	3355.3	3363.6	3481.2	3422.1	3350.8
22.5°	2448.4	2478.6	2617.9	2465.7	2409.8
25°	1630.1	1691.8	1838.2	1648.7	1596.7
27.5°	1002.6	1030.9	1179.2	989.8	961.5
30°	623.7	609.5	679.5	583.2	543.4
32.5°	409.1	391.1	413.6	371.2	339.1
35°	273.6	279.4	262.1	260.1	219.7
37.5°	170.8	196.5	173.4	185.0	141.3
40°	110.5	142.6	122.7	135.5	104.0
42.5°	90.6	109.8	100.8	107.3	92.5
45°	71.9	89.3	89.3	89.3	72.6
47.5°	39.8	59.7	76.4	61.0	42.4
50°	22.5	30.2	59.1	31.5	23.8
52.5°	15.4	17.3	40.5	18.0	16.1
55°	11.6	12.2	21.8	12.8	12.2
57.5°	9.0	9.6	11.6	9.6	9.0
60°	7.1	7.1	8.3	7.7	7.1
62.5°	5.1	5.1	5.8	5.1	5.1
65°	3.9	3.9	3.9	3.9	3.9
67.5°	1.9	2.6	2.6	2.6	2.6
70°	1.9	1.3	1.3	1.3	1.9
72.5°	1.3	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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