

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: P772647

Luminaire Tested: LD6D85BD010-EU6DR3070959030-6LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772647
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-EU6DR3070959030-6LBSQW1MW
Description: 6 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

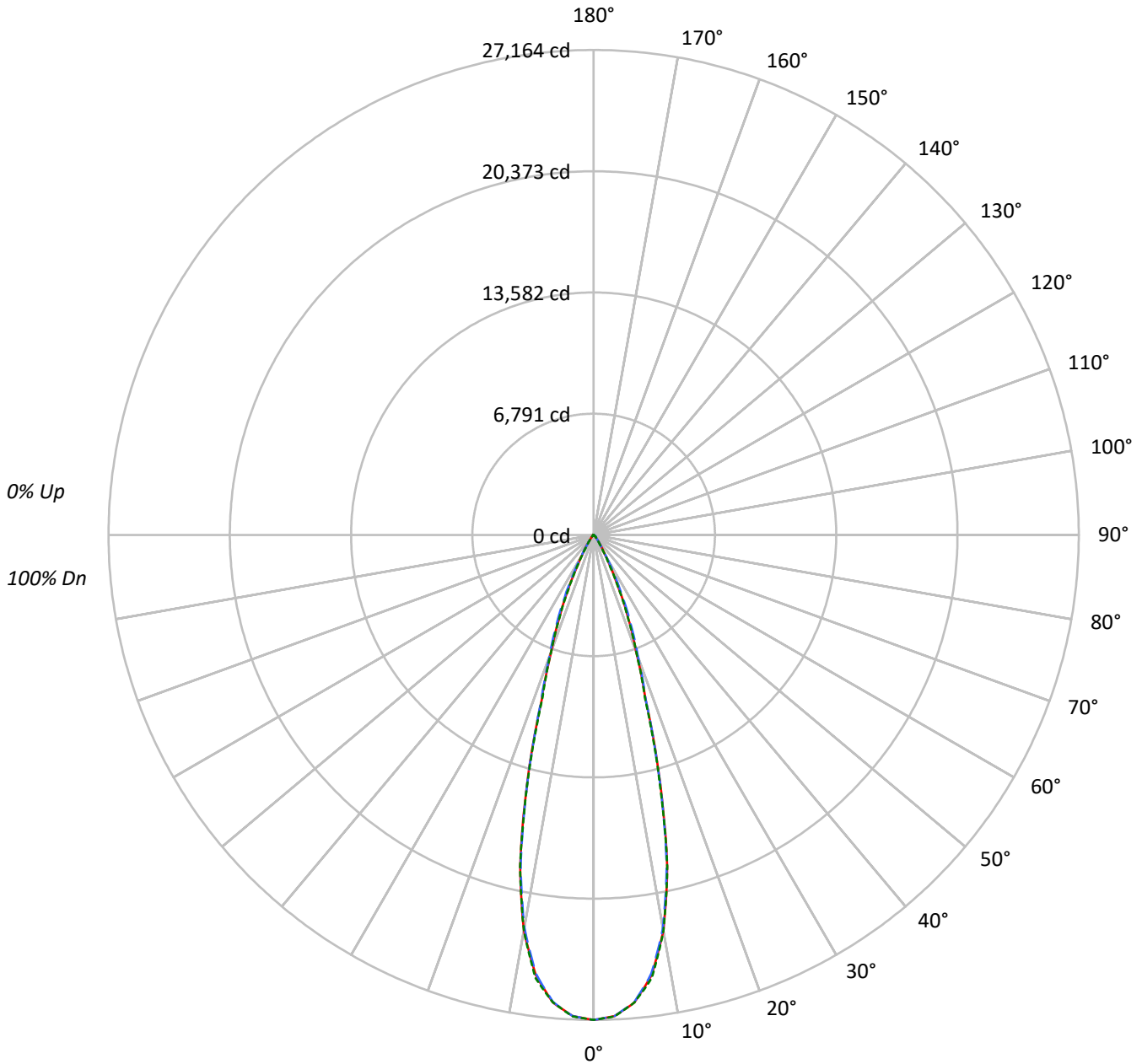
Lumens per Lamp: N/A
Luminaire Lumens: 8447.7 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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°	2079194	2079194	2079194
5°	2019506	2017147	2019605
10°	1749199	1736864	1748779
15°	1141266	1135132	1129427
20°	567494	588787	566737
25°	285868	322361	280006
30°	114458	124711	99724
35°	53085	50842	42619
40°	22922	25450	21583
45°	16172	20069	16313
50°	5561	14611	5871
55°	3203	6045	3376
60°	2250	2648	2250
65°	1449	1449	1449
70°	895	604	895
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 20069 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2388.6	28.3
10°-20°	3846.9	45.5
20°-30°	1662.3	19.7
30°-40°	378.9	4.5
40°-50°	130.1	1.5
50°-60°	31.8	0.4
60°-70°	8.2	0.1
70°-80°	0.9	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°	7897.9	93.5
0°-40°	8276.7	98.0
0°-60°	8438.6	99.9
0°-90°	8447.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8447.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27164	27164	27164	27164	27164	
5°	26283	26258	26253	26307	26285	2391
15°	14402	14229	14325	14278	14253	3856
25°	3385	3513	3817	3424	3315	1620
35°	568	580	544	540	456	385
45°	149	185	185	185	151	106
55°	24	25	45	27	25	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°	27163.6	27163.6	27163.6	27163.6	27163.6
2.5°	26983.5	26964.8	26975.5	26988.8	26994.2
5°	26283.4	26258.0	26252.7	26307.4	26284.7
7.5°	24871.0	24835.0	24780.3	24904.4	25020.4
10°	22505.2	22465.1	22346.5	22405.1	22499.8
12.5°	19012.4	18883.0	18880.3	19067.0	19041.7
15°	14402.0	14228.6	14324.6	14277.9	14252.6
17.5°	9684.9	9618.2	9746.2	9707.6	9540.9
20°	6966.9	6984.3	7228.3	7105.6	6957.6
22.5°	5083.8	5146.5	5435.9	5119.8	5003.8
25°	3384.8	3512.8	3816.9	3423.5	3315.4
27.5°	2081.8	2140.5	2448.6	2055.1	1996.5
30°	1295.0	1265.6	1411.0	1210.9	1128.3
32.5°	849.5	812.2	858.9	770.8	704.2
35°	568.1	580.1	544.1	540.1	456.1
37.5°	354.7	408.1	360.1	384.1	293.4
40°	229.4	296.1	254.7	281.4	216.0
42.5°	188.0	228.1	209.4	222.7	192.0
45°	149.4	185.4	185.4	185.4	150.7
47.5°	82.7	124.0	158.7	126.7	88.0
50°	46.7	62.7	122.7	65.3	49.3
52.5°	32.0	36.0	84.0	37.3	33.3
55°	24.0	25.3	45.3	26.7	25.3
57.5°	18.7	20.0	24.0	20.0	18.7
60°	14.7	14.7	17.3	16.0	14.7
62.5°	10.7	10.7	12.0	10.7	10.7
65°	8.0	8.0	8.0	8.0	8.0
67.5°	4.0	5.3	5.3	5.3	5.3
70°	4.0	2.7	2.7	2.7	4.0
72.5°	2.7	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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