

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: P772609

Luminaire Tested: LD6D85BD010-EU6DR3070959024-6LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772609
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-EU6DR3070959024-6LBCSSQMB
Description: 6 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7862.5 lumens
Efficiency: N/A
Efficacy: 89.7 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

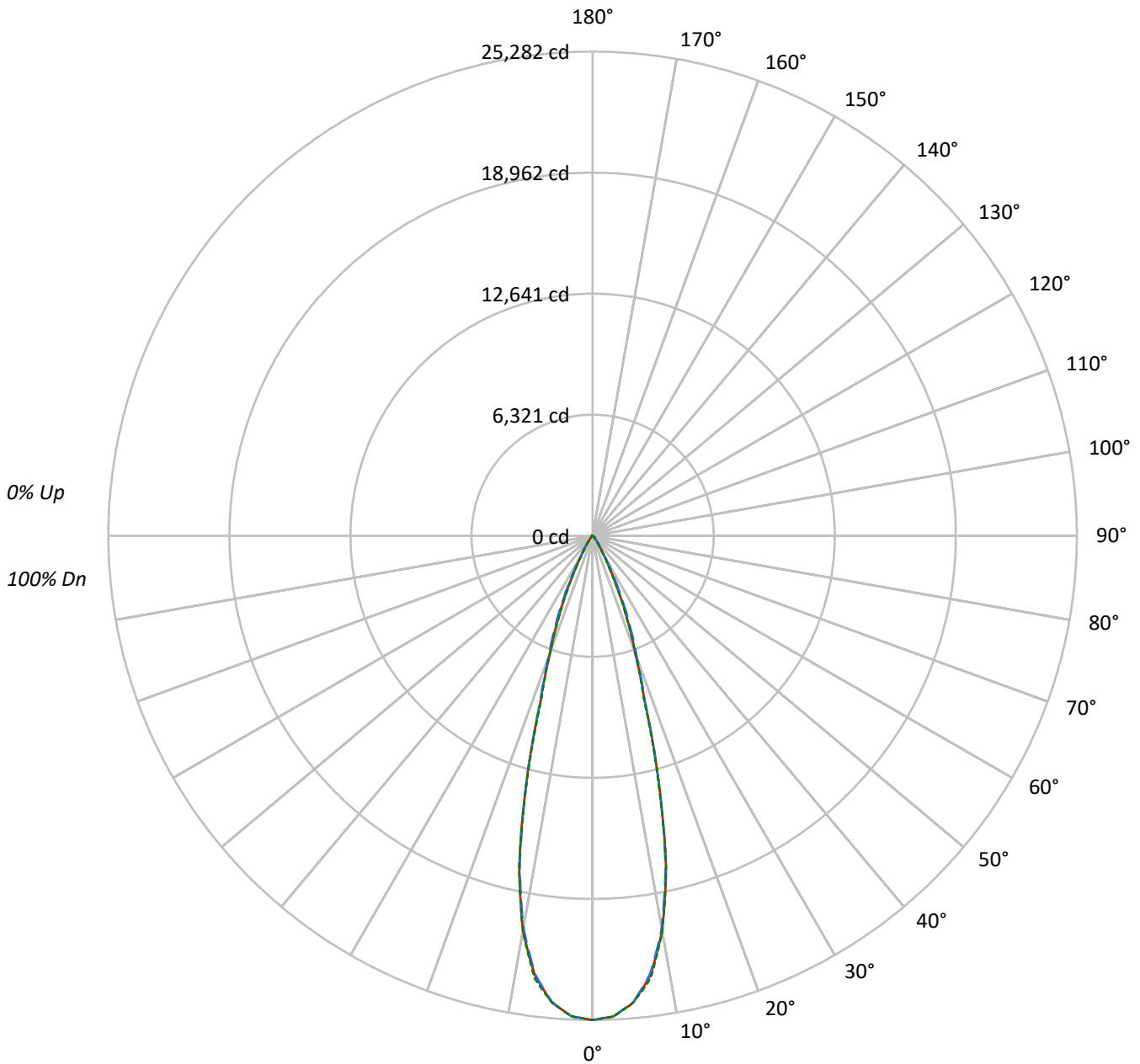
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P772609

CATALOG NUMBER: LD6D85BD010-EU6DR3070959024-6LBCSSQMB

Luminous Intensity Polar Plot





TEST NUMBER: P772609

CATALOG NUMBER: LD6D85BD010-EU6DR3070959024-6LBCSSQMB

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																			
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°	1935155	1935155	1935155
5°	1879603	1877405	1879695
10°	1628019	1616539	1627638
15°	1062204	1056499	1051190
20°	528184	548002	527475
25°	266063	300031	260615
30°	106530	116067	92813
35°	49412	47319	39666
40°	21333	23691	20094
45°	15047	18673	15187
50°	5168	13599	5466
55°	2976	5632	3149
60°	2097	2465	2097
65°	1340	1340	1340
70°	828	559	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: 18673 cd/sqm



TEST NUMBER: P772609

CATALOG NUMBER: LD6D85BD010-EU6DR3070959024-6LBCSSQMB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2223.2	28.3
10°-20°	3580.4	45.5
20°-30°	1547.2	19.7
30°-40°	352.6	4.5
40°-50°	121.1	1.5
50°-60°	29.6	0.4
60°-70°	7.7	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°	7350.8	93.5
0°-40°	7703.4	98.0
0°-60°	7854.0	99.9
0°-90°	7862.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7862.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25282	25282	25282	25282	25282	
5°	24463	24439	24434	24485	24464	2225
15°	13404	13243	13332	13289	13265	3589
25°	3150	3270	3552	3186	3086	1508
35°	529	540	506	503	424	359
45°	139	172	172	172	140	99
55°	22	24	42	25	24	22
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



TEST NUMBER: P772609

CATALOG NUMBER: LD6D85BD010-EU6DR3070959024-6LBCSSQMB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	25281.8	25281.8	25281.8	25281.8	25281.8
2.5°	25114.3	25096.9	25106.8	25119.2	25124.2
5°	24462.6	24439.0	24434.0	24484.9	24463.8
7.5°	23148.1	23114.6	23063.7	23179.1	23287.1
10°	20946.1	20908.9	20798.4	20853.0	20941.2
12.5°	17695.3	17574.9	17572.4	17746.2	17722.6
15°	13404.3	13242.9	13332.3	13288.8	13265.3
17.5°	9014.0	8951.9	9071.1	9035.1	8879.9
20°	6484.3	6500.4	6727.6	6613.4	6475.6
22.5°	4731.7	4790.0	5059.3	4765.2	4657.2
25°	3150.3	3269.5	3552.5	3186.3	3085.8
27.5°	1937.6	1992.2	2278.9	1912.8	1858.2
30°	1205.3	1177.9	1313.2	1127.1	1050.1
32.5°	790.7	755.9	799.4	717.4	655.4
35°	528.8	539.9	506.4	502.7	424.5
37.5°	330.2	379.8	335.1	357.5	273.1
40°	213.5	275.6	237.1	261.9	201.1
42.5°	175.0	212.3	194.9	207.3	178.7
45°	139.0	172.5	172.5	172.5	140.3
47.5°	77.0	115.4	147.7	117.9	81.9
50°	43.4	58.3	114.2	60.8	45.9
52.5°	29.8	33.5	78.2	34.8	31.0
55°	22.3	23.6	42.2	24.8	23.6
57.5°	17.4	18.6	22.3	18.6	17.4
60°	13.7	13.7	16.1	14.9	13.7
62.5°	9.9	9.9	11.2	9.9	9.9
65°	7.4	7.4	7.4	7.4	7.4
67.5°	3.7	5.0	5.0	5.0	5.0
70°	3.7	2.5	2.5	2.5	3.7
72.5°	2.5	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



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)