

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: P773396

Luminaire Tested: LD6D90BD010-EU6DR3070959024-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P773396
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: LD6D90BD010-EU6DR3070959024-6LBS1B
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9014.6 lumens
Efficiency: N/A
Efficacy: 91.1 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): 98.9
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

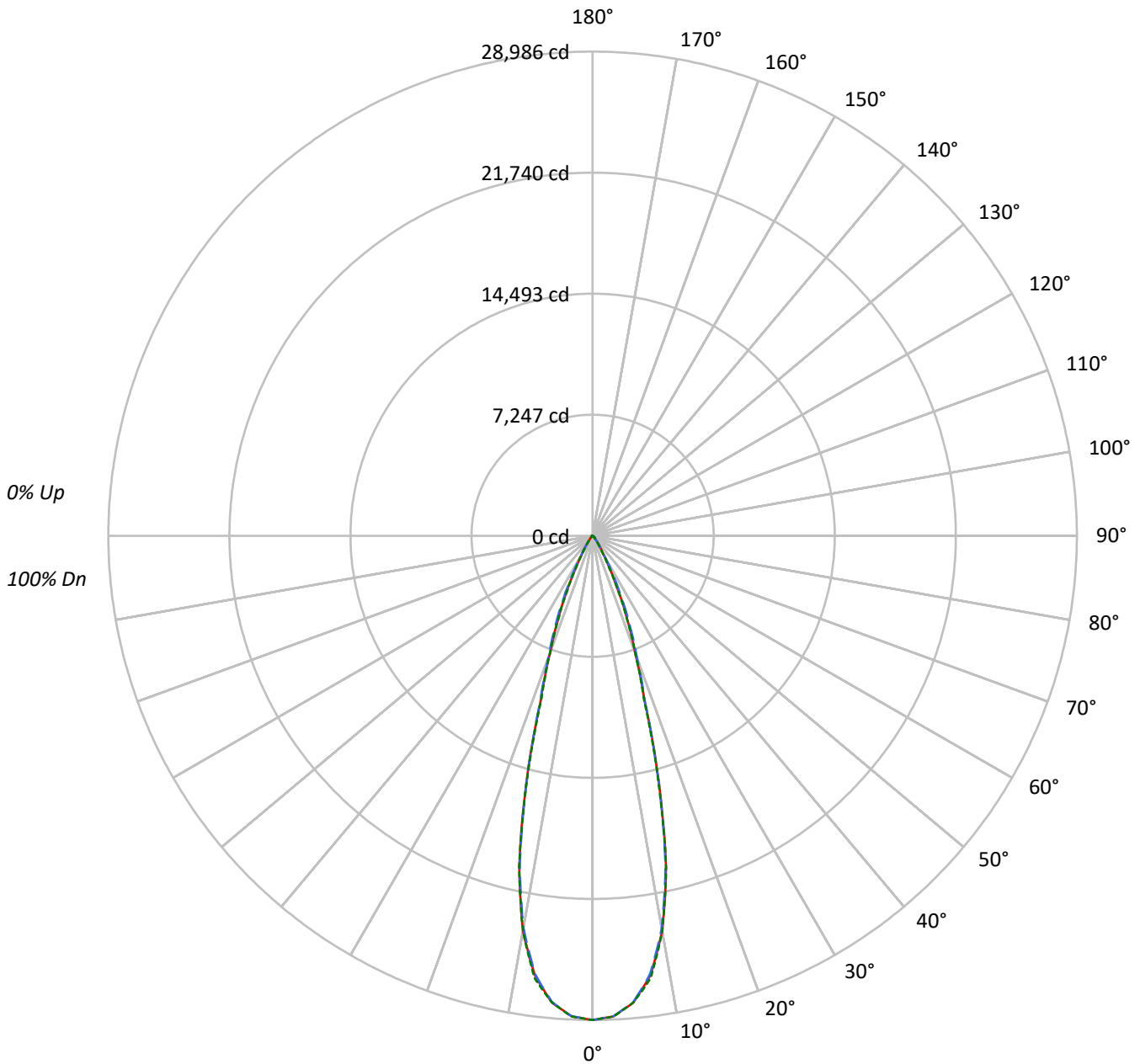


Downlight

TEST NUMBER: P773396

CATALOG NUMBER: LD6D90BD010-EU6DR3070959024-6LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P773396

CATALOG NUMBER: LD6D90BD010-EU6DR3070959024-6LBS1B

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°	2218710	2218710	2218710
5°	2155013	2152501	2155121
10°	1866570	1853404	1866127
15°	1217847	1211301	1205215
20°	605575	628301	604768
25°	305048	343990	298798
30°	122139	133081	106415
35°	56654	54253	45478
40°	24460	27158	23032
45°	17255	21412	17406
50°	5930	15588	6276
55°	3416	6459	3603
60°	2403	2832	2403
65°	1539	1539	1539
70°	962	627	962
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 21412 cd/sqm



TEST NUMBER: P773396

CATALOG NUMBER: LD6D90BD010-EU6DR3070959024-6LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2548.9	28.3
10°-20°	4105.0	45.5
20°-30°	1773.9	19.7
30°-40°	404.3	4.5
40°-50°	138.8	1.5
50°-60°	33.9	0.4
60°-70°	8.8	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°	8427.8	93.5
0°-40°	8832.1	98.0
0°-60°	9004.9	99.9
0°-90°	9014.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9014.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28986	28986	28986	28986	28986	
5°	28047	28020	28014	28073	28048	2551
15°	15368	15183	15286	15236	15209	4115
25°	3612	3748	4073	3653	3538	1729
35°	606	619	581	576	487	411
45°	159	198	198	198	161	113
55°	26	27	48	28	27	25
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



TEST NUMBER: P773396

CATALOG NUMBER: LD6D90BD010-EU6DR3070959024-6LBS1B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	28986.3	28986.3	28986.3	28986.3	28986.3
2.5°	28794.1	28774.2	28785.6	28799.8	28805.5
5°	28047.0	28020.0	28014.3	28072.6	28048.4
7.5°	26539.9	26501.5	26443.1	26575.5	26699.3
10°	24015.3	23972.6	23845.9	23908.5	24009.6
12.5°	20288.1	20150.1	20147.2	20346.5	20319.4
15°	15368.4	15183.3	15285.8	15236.0	15209.0
17.5°	10334.8	10263.6	10400.2	10358.9	10181.1
20°	7434.4	7452.9	7713.4	7582.4	7424.5
22.5°	5425.0	5491.8	5800.7	5463.4	5339.6
25°	3611.9	3748.5	4073.0	3653.2	3537.9
27.5°	2221.5	2284.1	2612.9	2193.0	2130.4
30°	1381.9	1350.5	1505.7	1292.2	1204.0
32.5°	906.5	866.7	916.5	822.6	751.4
35°	606.3	619.1	580.6	576.4	486.7
37.5°	378.6	435.5	384.2	409.9	313.1
40°	244.8	315.9	271.8	300.3	230.5
42.5°	200.7	243.4	223.4	237.7	204.9
45°	159.4	197.8	197.8	197.8	160.8
47.5°	88.2	132.4	169.4	135.2	93.9
50°	49.8	66.9	130.9	69.7	52.7
52.5°	34.2	38.4	89.7	39.8	35.6
55°	25.6	27.0	48.4	28.5	27.0
57.5°	19.9	21.3	25.6	21.3	19.9
60°	15.7	15.7	18.5	17.1	15.7
62.5°	11.4	11.4	12.8	11.4	11.4
65°	8.5	8.5	8.5	8.5	8.5
67.5°	4.3	5.7	5.7	5.7	5.7
70°	4.3	2.8	2.8	2.8	4.3
72.5°	2.8	1.4	1.4	1.4	1.4
75°	0.0	0.0	1.4	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)