

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: P773454

Luminaire Tested: LD6D90BD010-EU6DR3070959050-6LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P773454
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-EU6DR3070959050-6LBCSSQMB
Description: 6 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10370.0 lumens
Efficiency: N/A
Efficacy: 104.9 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

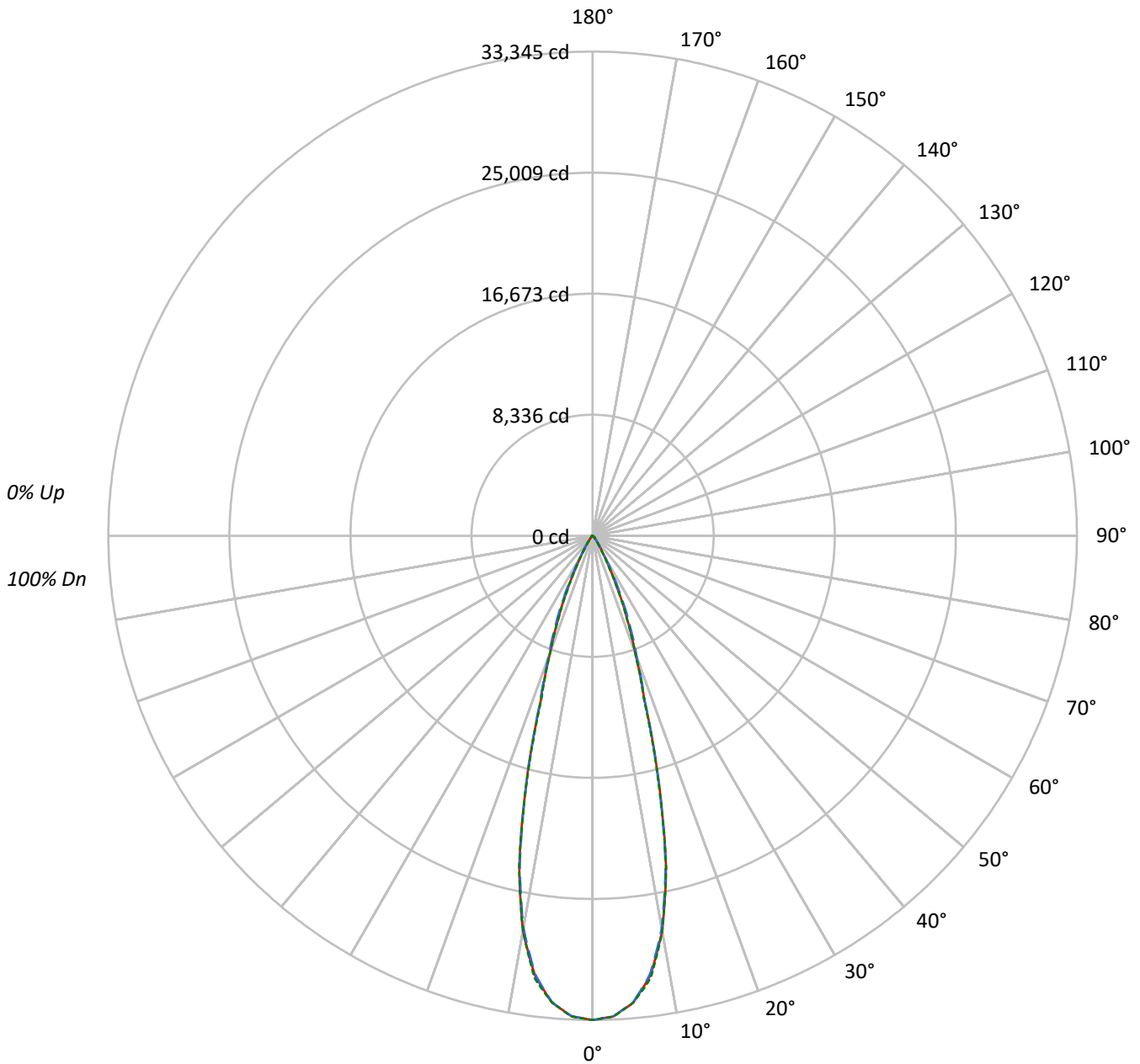
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	2552324	2552324	2552324
5°	2479053	2476164	2479183
10°	2147240	2132091	2146727
15°	1400963	1393442	1386437
20°	696634	722773	695698
25°	350916	395712	343729
30°	140496	153091	122413
35°	65167	62410	52318
40°	28138	31245	26499
45°	19853	24637	20026
50°	6823	17934	7216
55°	3937	7433	4150
60°	2756	3261	2756
65°	1775	1775	1775
70°	1097	739	1097
75°	0	473	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 24637 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2932.2	28.3
10°-20°	4722.3	45.5
20°-30°	2040.6	19.7
30°-40°	465.1	4.5
40°-50°	159.7	1.5
50°-60°	39.0	0.4
60°-70°	10.1	0.1
70°-80°	1.1	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°	9695.1	93.5
0°-40°	10160.2	98.0
0°-60°	10358.9	99.9
0°-90°	10370.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10370.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	33345	33345	33345	33345	33345	
5°	32264	32233	32227	32294	32266	2935
15°	17679	17466	17584	17527	17496	4734
25°	4155	4312	4685	4202	4070	1989
35°	697	712	668	663	560	473
45°	183	228	228	228	185	130
55°	30	31	56	33	31	29
65°	10	10	10	10	10	10
75°	0	0	2	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	33344.8	33344.8	33344.8	33344.8	33344.8
2.5°	33123.8	33100.9	33114.0	33130.4	33136.9
5°	32264.3	32233.2	32226.7	32293.8	32266.0
7.5°	30530.6	30486.4	30419.3	30571.5	30714.0
10°	27626.4	27577.2	27431.5	27503.6	27619.8
12.5°	23338.8	23180.0	23176.7	23405.9	23374.8
15°	17679.2	17466.4	17584.3	17527.0	17495.9
17.5°	11888.7	11806.9	11964.1	11916.6	11711.9
20°	8552.3	8573.6	8873.2	8722.6	8540.8
22.5°	6240.7	6317.6	6672.9	6284.9	6142.5
25°	4155.0	4312.2	4685.4	4202.5	4069.9
27.5°	2555.5	2627.6	3005.7	2522.8	2450.8
30°	1589.6	1553.6	1732.1	1486.5	1385.0
32.5°	1042.8	997.0	1054.3	946.3	864.4
35°	697.4	712.1	667.9	663.0	559.9
37.5°	435.5	501.0	442.0	471.5	360.2
40°	281.6	363.4	312.7	345.4	265.2
42.5°	230.8	279.9	257.0	273.4	235.7
45°	183.4	227.6	227.6	227.6	185.0
47.5°	101.5	152.3	194.8	155.5	108.0
50°	57.3	76.9	150.6	80.2	60.6
52.5°	39.3	44.2	103.1	45.8	40.9
55°	29.5	31.1	55.7	32.7	31.1
57.5°	22.9	24.6	29.5	24.6	22.9
60°	18.0	18.0	21.3	19.6	18.0
62.5°	13.1	13.1	14.7	13.1	13.1
65°	9.8	9.8	9.8	9.8	9.8
67.5°	4.9	6.5	6.5	6.5	6.5
70°	4.9	3.3	3.3	3.3	4.9
72.5°	3.3	1.6	1.6	1.6	1.6
75°	0.0	0.0	1.6	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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