

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: P773441

Luminaire Tested: LD6D90BD010-EU6DR3070959040-6LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P773441
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-EU6DR3070959040-6LBCSSQMB
Description: 6 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10296.5 lumens
Efficiency: N/A
Efficacy: 104.1 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

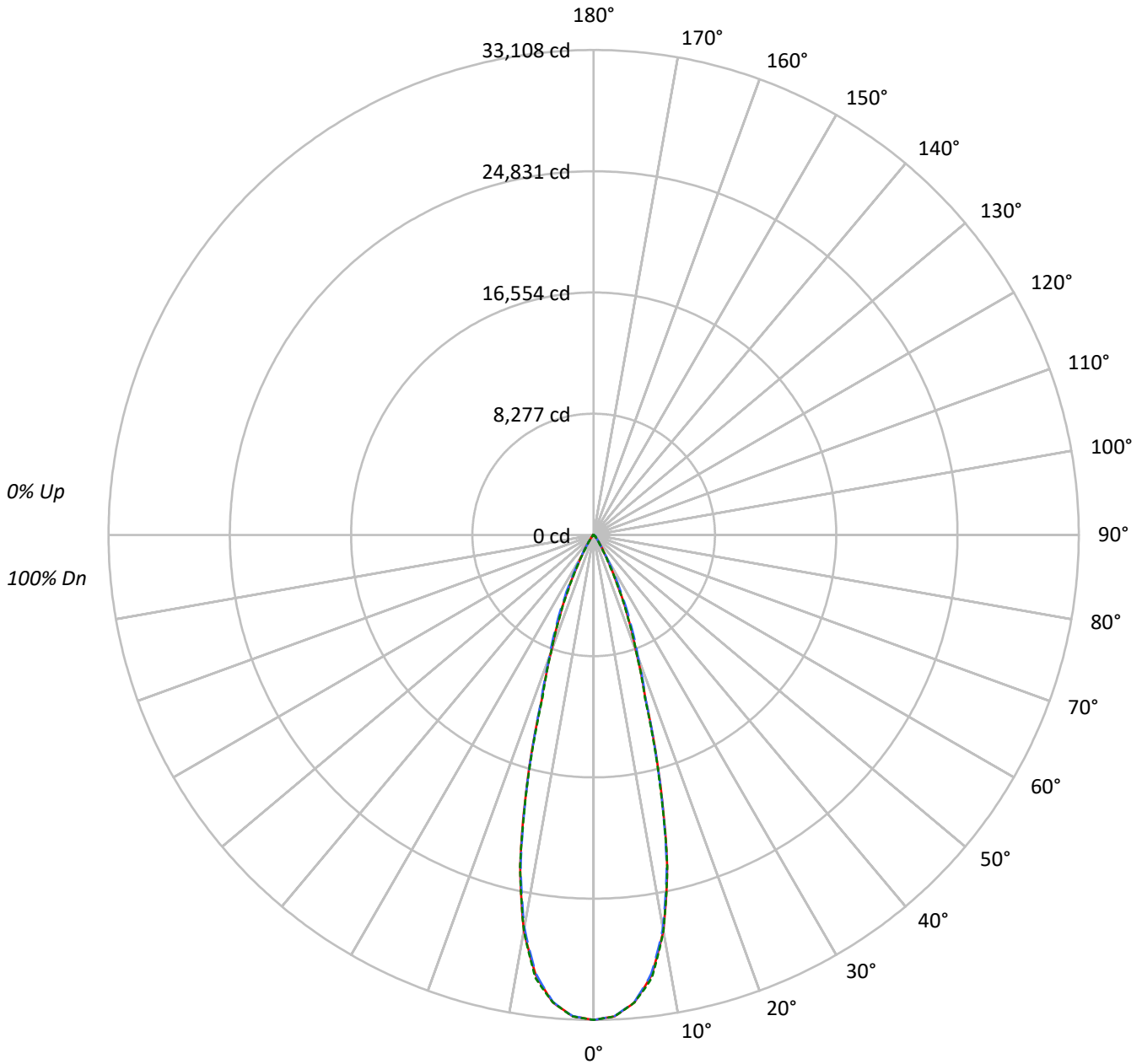
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	2534222	2534222	2534222
5°	2461473	2458599	2461596
10°	2132006	2116974	2131501
15°	1391033	1383561	1376603
20°	691690	717642	690769
25°	348424	392908	341288
30°	139506	152004	121547
35°	64709	61971	51945
40°	27938	31025	26309
45°	19712	24453	19885
50°	6776	17803	7157
55°	3910	7380	4124
60°	2740	3230	2740
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: 24453 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2911.4	28.3
10°-20°	4688.8	45.5
20°-30°	2026.2	19.7
30°-40°	461.8	4.5
40°-50°	158.6	1.5
50°-60°	38.7	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°	9626.3	93.5
0°-40°	10088.1	98.0
0°-60°	10285.4	99.9
0°-90°	10296.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10296.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	33108	33108	33108	33108	33108	
5°	32036	32005	31998	32065	32037	2914
15°	17554	17342	17460	17403	17372	4700
25°	4126	4282	4652	4173	4041	1975
35°	692	707	663	658	556	470
45°	182	226	226	226	184	129
55°	29	31	55	32	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°	33108.3	33108.3	33108.3	33108.3	33108.3
2.5°	32888.9	32866.1	32879.1	32895.4	32901.9
5°	32035.5	32004.6	31998.1	32064.8	32037.1
7.5°	30314.1	30270.2	30203.5	30354.7	30496.1
10°	27430.4	27381.7	27237.0	27308.5	27423.9
12.5°	23173.2	23015.6	23012.3	23239.9	23209.0
15°	17553.9	17342.5	17459.6	17402.7	17371.8
17.5°	11804.4	11723.2	11879.2	11832.1	11628.9
20°	8491.6	8512.8	8810.2	8660.7	8480.3
22.5°	6196.4	6272.8	6625.6	6240.3	6098.9
25°	4125.5	4281.6	4652.2	4172.7	4041.0
27.5°	2537.4	2608.9	2984.4	2504.9	2433.4
30°	1578.4	1542.6	1719.8	1476.0	1375.2
32.5°	1035.4	989.9	1046.8	939.5	858.3
35°	692.5	707.1	663.2	658.3	555.9
37.5°	432.4	497.4	438.9	468.1	357.6
40°	279.6	360.9	310.5	343.0	263.3
42.5°	229.2	278.0	255.2	271.5	234.1
45°	182.1	225.9	225.9	225.9	183.7
47.5°	100.8	151.2	193.4	154.4	107.3
50°	56.9	76.4	149.5	79.6	60.1
52.5°	39.0	43.9	102.4	45.5	40.6
55°	29.3	30.9	55.3	32.5	30.9
57.5°	22.8	24.4	29.3	24.4	22.8
60°	17.9	17.9	21.1	19.5	17.9
62.5°	13.0	13.0	14.6	13.0	13.0
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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