

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: P771842

Luminaire Tested: LD6D80BD010-EU6DR3070959027-6LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P771842
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: LD6D80BD010-EU6DR3070959027-6LBCSSQMB
Description: 6 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8366.3 lumens
Efficiency: N/A
Efficacy: 106.0 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

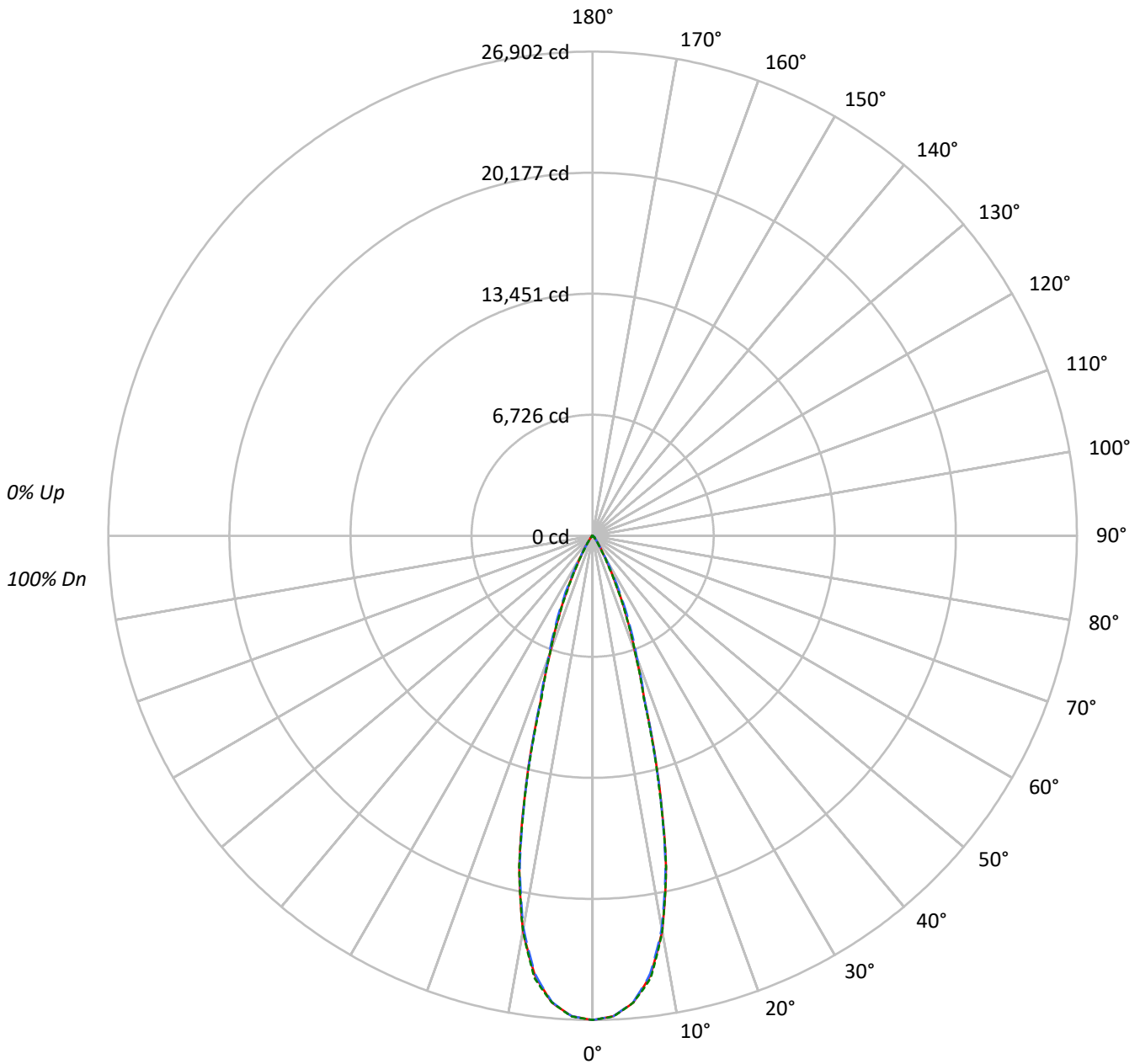
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	2059140	2059140	2059140
5°	2000028	1997692	2000128
10°	1732333	1720114	1731921
15°	1130259	1124189	1118539
20°	562029	583109	561271
25°	283106	319253	277312
30°	113353	123509	98761
35°	52580	50356	42208
40°	22702	25210	21383
45°	16010	19874	16151
50°	5502	14468	5823
55°	3176	5992	3350
60°	2220	2633	2220
65°	1431	1431	1431
70°	895	582	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: 19874 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2365.6	28.3
10°-20°	3809.8	45.5
20°-30°	1646.3	19.7
30°-40°	375.2	4.5
40°-50°	128.8	1.5
50°-60°	31.5	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°	7821.7	93.5
0°-40°	8197.0	98.0
0°-60°	8357.3	99.9
0°-90°	8366.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8366.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26902	26902	26902	26902	26902	
5°	26030	26005	26000	26054	26031	2368
15°	14263	14091	14186	14140	14115	3819
25°	3352	3479	3780	3390	3284	1605
35°	563	574	539	535	452	382
45°	148	184	184	184	149	105
55°	24	25	45	26	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°	26901.6	26901.6	26901.6	26901.6	26901.6
2.5°	26723.3	26704.8	26715.4	26728.6	26733.9
5°	26029.9	26004.8	25999.5	26053.7	26031.2
7.5°	24631.2	24595.6	24541.4	24664.2	24779.1
10°	22288.2	22248.5	22131.0	22189.1	22282.9
12.5°	18829.0	18700.9	18698.3	18883.2	18858.1
15°	14263.1	14091.4	14186.5	14140.3	14115.2
17.5°	9591.5	9525.5	9652.3	9614.0	9448.9
20°	6899.8	6916.9	7158.6	7037.1	6890.5
22.5°	5034.8	5096.9	5383.5	5070.5	4955.6
25°	3352.1	3478.9	3780.1	3390.4	3283.5
27.5°	2061.7	2119.9	2425.0	2035.3	1977.2
30°	1282.5	1253.4	1397.4	1199.3	1117.4
32.5°	841.3	804.4	850.6	763.4	697.4
35°	562.7	574.5	538.9	534.9	451.7
37.5°	351.3	404.2	356.6	380.4	290.6
40°	227.2	293.2	252.3	278.7	214.0
42.5°	186.2	225.9	207.4	220.6	190.2
45°	147.9	183.6	183.6	183.6	149.2
47.5°	81.9	122.8	157.2	125.5	87.2
50°	46.2	62.1	121.5	64.7	48.9
52.5°	31.7	35.7	83.2	37.0	33.0
55°	23.8	25.1	44.9	26.4	25.1
57.5°	18.5	19.8	23.8	19.8	18.5
60°	14.5	14.5	17.2	15.8	14.5
62.5°	10.6	10.6	11.9	10.6	10.6
65°	7.9	7.9	7.9	7.9	7.9
67.5°	4.0	5.3	5.3	5.3	5.3
70°	4.0	2.6	2.6	2.6	4.0
72.5°	2.6	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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