

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: P771845

Luminaire Tested: LD6D80BD010-EU6DR3070959027-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P771845
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-EU6DR3070959027-6LBDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7376.0 lumens
Efficiency: N/A
Efficacy: 93.5 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

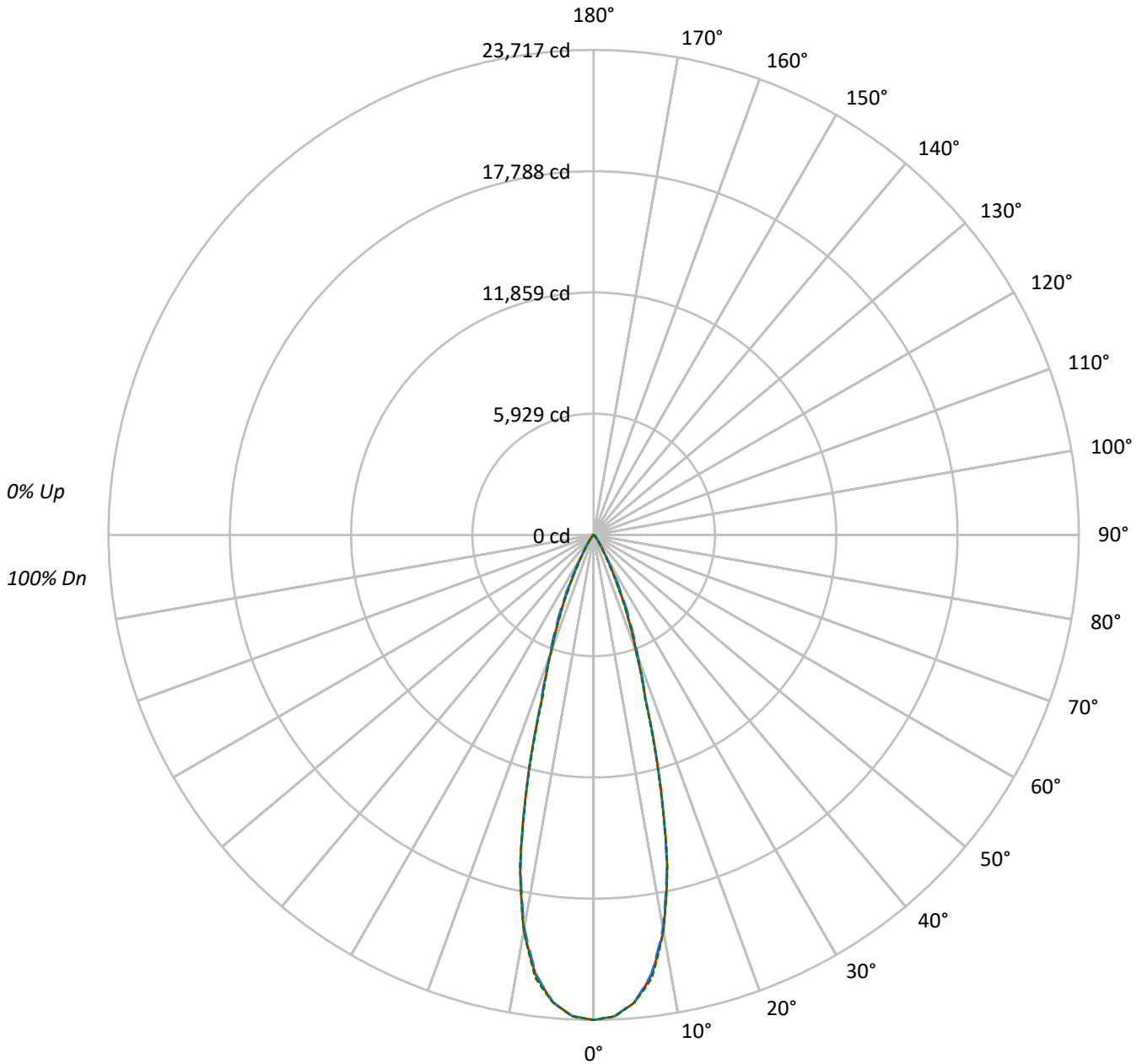
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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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°	1815403	1815403	1815403
5°	1763289	1761230	1763373
10°	1527273	1516508	1526915
15°	996472	991123	986138
20°	495496	514092	494836
25°	249594	281459	244484
30°	99937	108890	87068
35°	46357	44394	37209
40°	20014	22222	18845
45°	14116	17525	14246
50°	4858	12754	5132
55°	2802	5285	2949
60°	1960	2312	1960
65°	1268	1268	1268
70°	783	515	783
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 17525 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2085.6	28.3
10°-20°	3358.8	45.5
20°-30°	1451.4	19.7
30°-40°	330.8	4.5
40°-50°	113.6	1.5
50°-60°	27.7	0.4
60°-70°	7.2	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°	6895.9	93.5
0°-40°	7226.7	98.0
0°-60°	7368.0	99.9
0°-90°	7376.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7376.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23717	23717	23717	23717	23717	
5°	22949	22927	22922	22970	22950	2087
15°	12575	12423	12507	12466	12444	3367
25°	2955	3067	3333	2989	2895	1415
35°	496	506	475	472	398	336
45°	130	162	162	162	132	93
55°	21	22	40	23	22	20
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	23717.3	23717.3	23717.3	23717.3	23717.3
2.5°	23560.1	23543.8	23553.1	23564.8	23569.4
5°	22948.8	22926.7	22922.0	22969.7	22949.9
7.5°	21715.6	21684.2	21636.5	21744.8	21846.1
10°	19649.9	19615.0	19511.4	19562.6	19645.3
12.5°	16600.3	16487.3	16485.0	16648.0	16625.9
15°	12574.8	12423.4	12507.3	12466.5	12444.4
17.5°	8456.2	8397.9	8509.7	8476.0	8330.4
20°	6083.0	6098.2	6311.3	6204.1	6074.9
22.5°	4438.8	4493.6	4746.3	4470.3	4369.0
25°	2955.3	3067.1	3332.6	2989.1	2894.8
27.5°	1817.7	1868.9	2137.9	1794.4	1743.2
30°	1130.7	1105.1	1232.0	1057.3	985.1
32.5°	741.7	709.1	749.9	673.0	614.8
35°	496.1	506.5	475.1	471.6	398.2
37.5°	309.7	356.3	314.4	335.4	256.2
40°	200.3	258.5	222.4	245.7	188.6
42.5°	164.2	199.1	182.8	194.5	167.7
45°	130.4	161.9	161.9	161.9	131.6
47.5°	72.2	108.3	138.6	110.6	76.9
50°	40.8	54.7	107.1	57.1	43.1
52.5°	27.9	31.4	73.4	32.6	29.1
55°	21.0	22.1	39.6	23.3	22.1
57.5°	16.3	17.5	21.0	17.5	16.3
60°	12.8	12.8	15.1	14.0	12.8
62.5°	9.3	9.3	10.5	9.3	9.3
65°	7.0	7.0	7.0	7.0	7.0
67.5°	3.5	4.7	4.7	4.7	4.7
70°	3.5	2.3	2.3	2.3	3.5
72.5°	2.3	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



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Scaled Data Report





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

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