

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: P773444

Luminaire Tested: LD6D90BD010-EU6DR3070959040-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P773444
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-EU6DR3070959040-6LBDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9077.7 lumens
Efficiency: N/A
Efficacy: 91.8 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

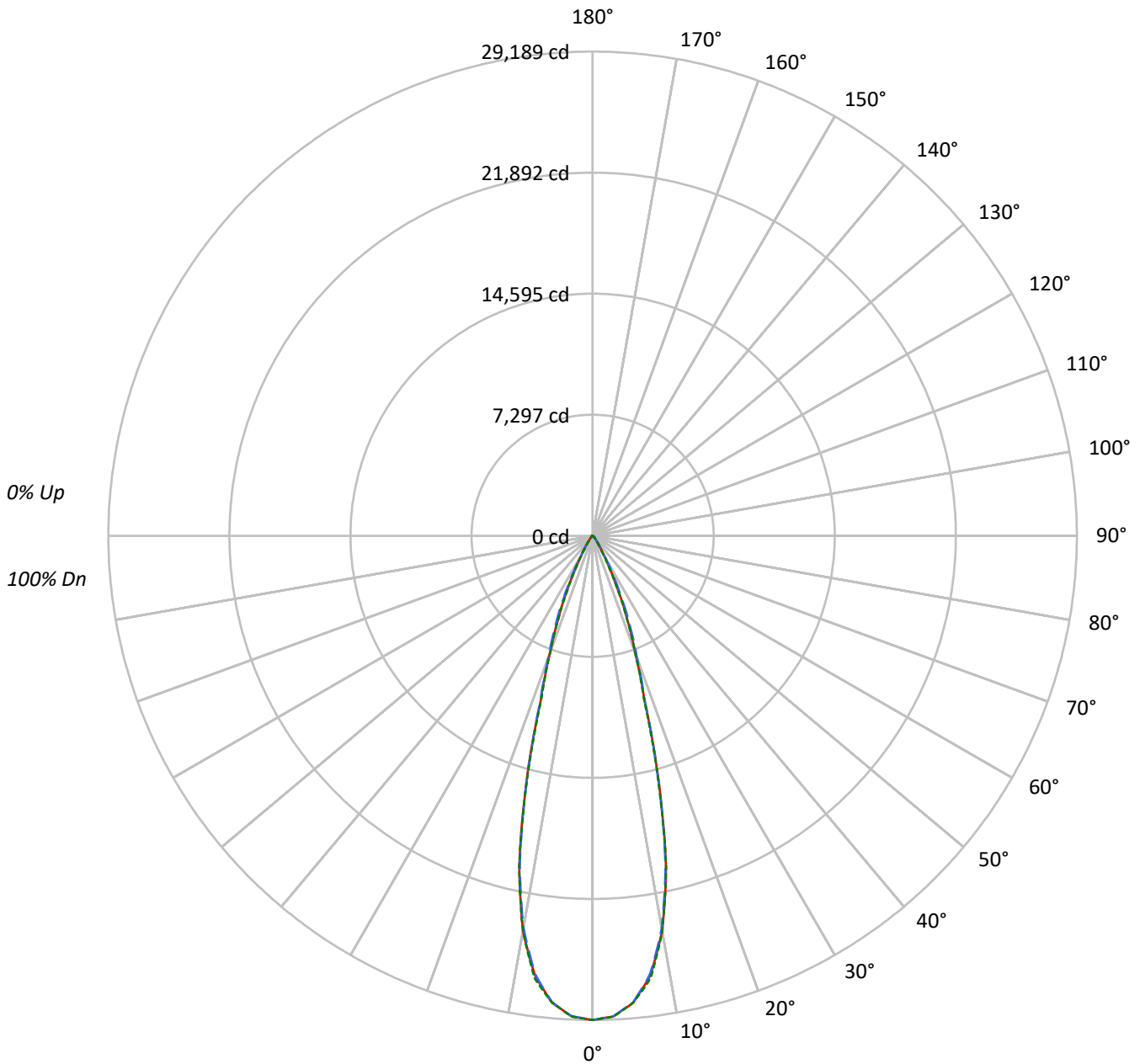
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2234248	2234248	2234248
5°	2170111	2167576	2170219
10°	1879643	1866391	1879200
15°	1226373	1219788	1213655
20°	609819	632700	609004
25°	307184	346397	300892
30°	122987	134009	107158
35°	57046	54636	45796
40°	24630	27348	23201
45°	17374	21563	17525
50°	5978	15695	6311
55°	3443	6499	3630
60°	2419	2847	2419
65°	1558	1558	1558
70°	962	649	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: 21563 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2566.8	28.3
10°-20°	4133.8	45.5
20°-30°	1786.3	19.7
30°-40°	407.1	4.5
40°-50°	139.8	1.5
50°-60°	34.1	0.4
60°-70°	8.9	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°	8486.9	93.5
0°-40°	8894.0	98.0
0°-60°	9067.9	99.9
0°-90°	9077.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9077.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29189	29189	29189	29189	29189	
5°	28244	28216	28210	28269	28245	2569
15°	15476	15290	15393	15343	15316	4144
25°	3637	3775	4102	3679	3563	1741
35°	610	623	585	580	490	414
45°	160	199	199	199	162	114
55°	26	27	49	29	27	25
65°	9	9	9	9	9	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°	29189.3	29189.3	29189.3	29189.3	29189.3
2.5°	28995.9	28975.8	28987.3	29001.6	29007.3
5°	28243.5	28216.2	28210.5	28269.3	28244.9
7.5°	26725.8	26687.1	26628.4	26761.7	26886.3
10°	24183.5	24140.5	24013.0	24076.0	24177.8
12.5°	20430.2	20291.2	20288.4	20489.0	20461.8
15°	15476.0	15289.7	15392.9	15342.7	15315.5
17.5°	10407.1	10335.5	10473.1	10431.5	10252.4
20°	7486.5	7505.1	7767.4	7635.5	7476.5
22.5°	5463.0	5530.3	5841.3	5501.7	5377.0
25°	3637.2	3774.8	4101.5	3678.8	3562.7
27.5°	2237.1	2300.1	2631.2	2208.4	2145.3
30°	1391.5	1360.0	1516.2	1301.3	1212.4
32.5°	912.9	872.8	922.9	828.3	756.7
35°	610.5	623.4	584.7	580.4	490.1
37.5°	381.2	438.5	386.9	412.7	315.3
40°	246.5	318.1	273.7	302.4	232.2
42.5°	202.1	245.1	225.0	239.3	206.4
45°	160.5	199.2	199.2	199.2	161.9
47.5°	88.9	133.3	170.5	136.1	94.6
50°	50.2	67.4	131.8	70.2	53.0
52.5°	34.4	38.7	90.3	40.1	35.8
55°	25.8	27.2	48.7	28.7	27.2
57.5°	20.1	21.5	25.8	21.5	20.1
60°	15.8	15.8	18.6	17.2	15.8
62.5°	11.5	11.5	12.9	11.5	11.5
65°	8.6	8.6	8.6	8.6	8.6
67.5°	4.3	5.7	5.7	5.7	5.7
70°	4.3	2.9	2.9	2.9	4.3
72.5°	2.9	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



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Scaled Data Report





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

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