

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: P771900

Luminaire Tested: LD6D80BD010-EU6DR3070959050-6LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P771900
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-EU6DR3070959050-6LBDP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8969.7 lumens
Efficiency: N/A
Efficacy: 113.7 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

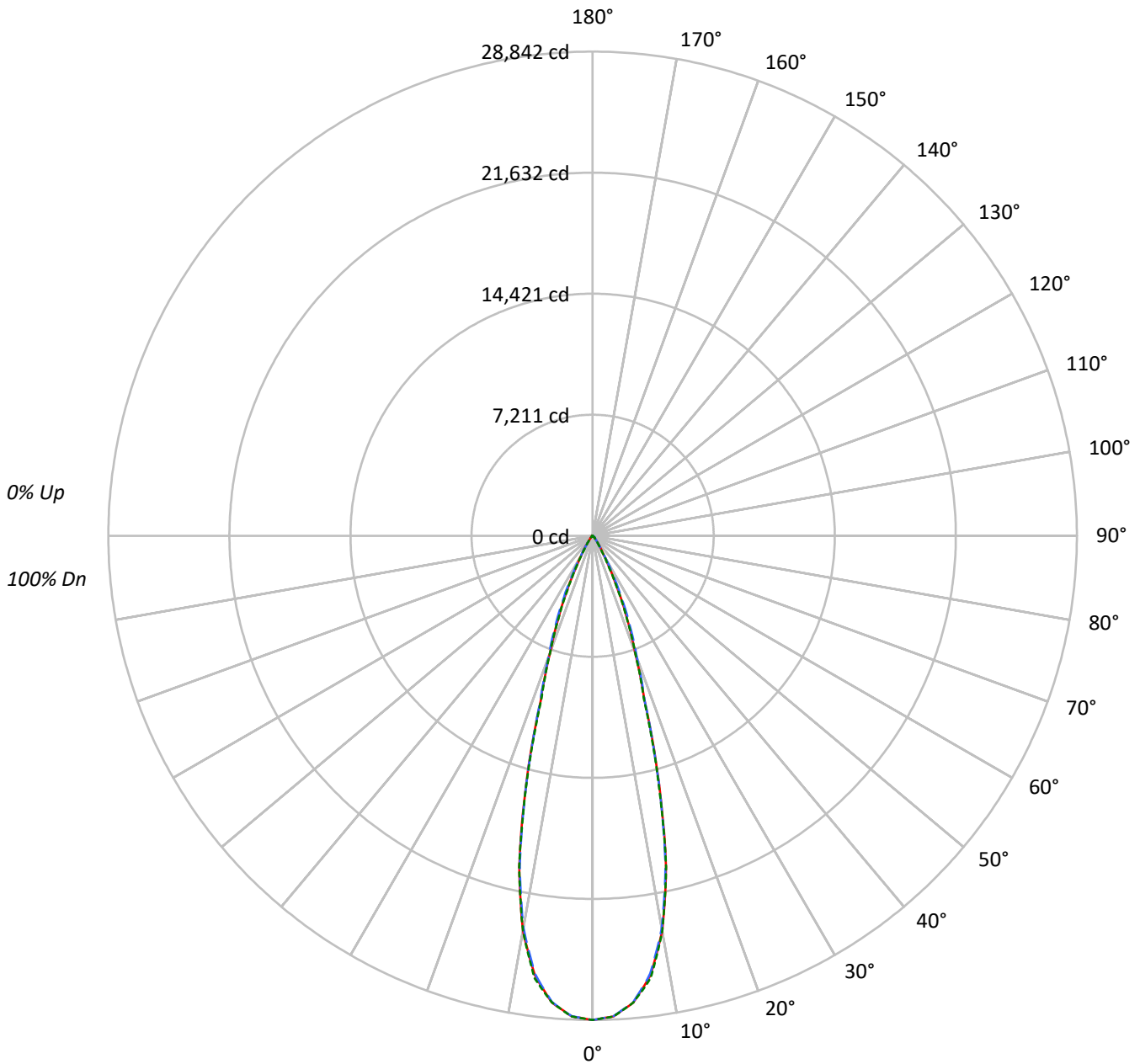


Downlight

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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	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°	2207672	2207672	2207672
5°	2144295	2141797	2144402
10°	1857290	1844185	1856847
15°	1211785	1205279	1199216
20°	602561	625173	601755
25°	303527	342276	297311
30°	121529	132418	105885
35°	56364	53982	45254
40°	24341	27028	22922
45°	17168	21303	17320
50°	5906	15516	6240
55°	3403	6419	3590
60°	2388	2817	2388
65°	1539	1539	1539
70°	940	627	940
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 21303 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2536.2	28.3
10°-20°	4084.6	45.5
20°-30°	1765.1	19.7
30°-40°	402.3	4.5
40°-50°	138.1	1.5
50°-60°	33.7	0.4
60°-70°	8.7	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°	8385.9	93.5
0°-40°	8788.2	98.0
0°-60°	8960.1	99.9
0°-90°	8969.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8969.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28842	28842	28842	28842	28842	
5°	27908	27881	27875	27933	27909	2538
15°	15292	15108	15210	15160	15133	4095
25°	3594	3730	4053	3635	3520	1720
35°	603	616	578	574	484	409
45°	159	197	197	197	160	113
55°	26	27	48	28	27	25
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°	28842.1	28842.1	28842.1	28842.1	28842.1
2.5°	28650.9	28631.1	28642.5	28656.6	28662.3
5°	27907.5	27880.6	27875.0	27933.0	27908.9
7.5°	26407.9	26369.7	26311.6	26443.3	26566.5
10°	23895.9	23853.4	23727.3	23789.6	23890.2
12.5°	20187.2	20049.9	20047.0	20245.3	20218.4
15°	15291.9	15107.8	15209.8	15160.2	15133.3
17.5°	10283.4	10212.6	10348.5	10307.4	10130.4
20°	7397.4	7415.9	7675.0	7544.7	7387.5
22.5°	5398.0	5464.5	5771.8	5436.2	5313.0
25°	3593.9	3729.9	4052.7	3635.0	3520.3
27.5°	2210.5	2272.8	2599.9	2182.1	2119.8
30°	1375.0	1343.8	1498.2	1285.8	1198.0
32.5°	902.0	862.4	911.9	818.5	747.7
35°	603.2	616.0	577.7	573.5	484.3
37.5°	376.7	433.3	382.3	407.8	311.5
40°	243.6	314.4	270.5	298.8	229.4
42.5°	199.7	242.1	222.3	236.5	203.9
45°	158.6	196.8	196.8	196.8	160.0
47.5°	87.8	131.7	168.5	134.5	93.5
50°	49.6	66.6	130.3	69.4	52.4
52.5°	34.0	38.2	89.2	39.6	35.4
55°	25.5	26.9	48.1	28.3	26.9
57.5°	19.8	21.2	25.5	21.2	19.8
60°	15.6	15.6	18.4	17.0	15.6
62.5°	11.3	11.3	12.7	11.3	11.3
65°	8.5	8.5	8.5	8.5	8.5
67.5°	4.2	5.7	5.7	5.7	5.7
70°	4.2	2.8	2.8	2.8	4.2
72.5°	2.8	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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