

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: P771887

Luminaire Tested: LD6D80BD010-EU6DR3070959040-6LBBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P771887
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-EU6DR3070959040-6LBDP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8906.1 lumens
Efficiency: N/A
Efficacy: 112.9 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

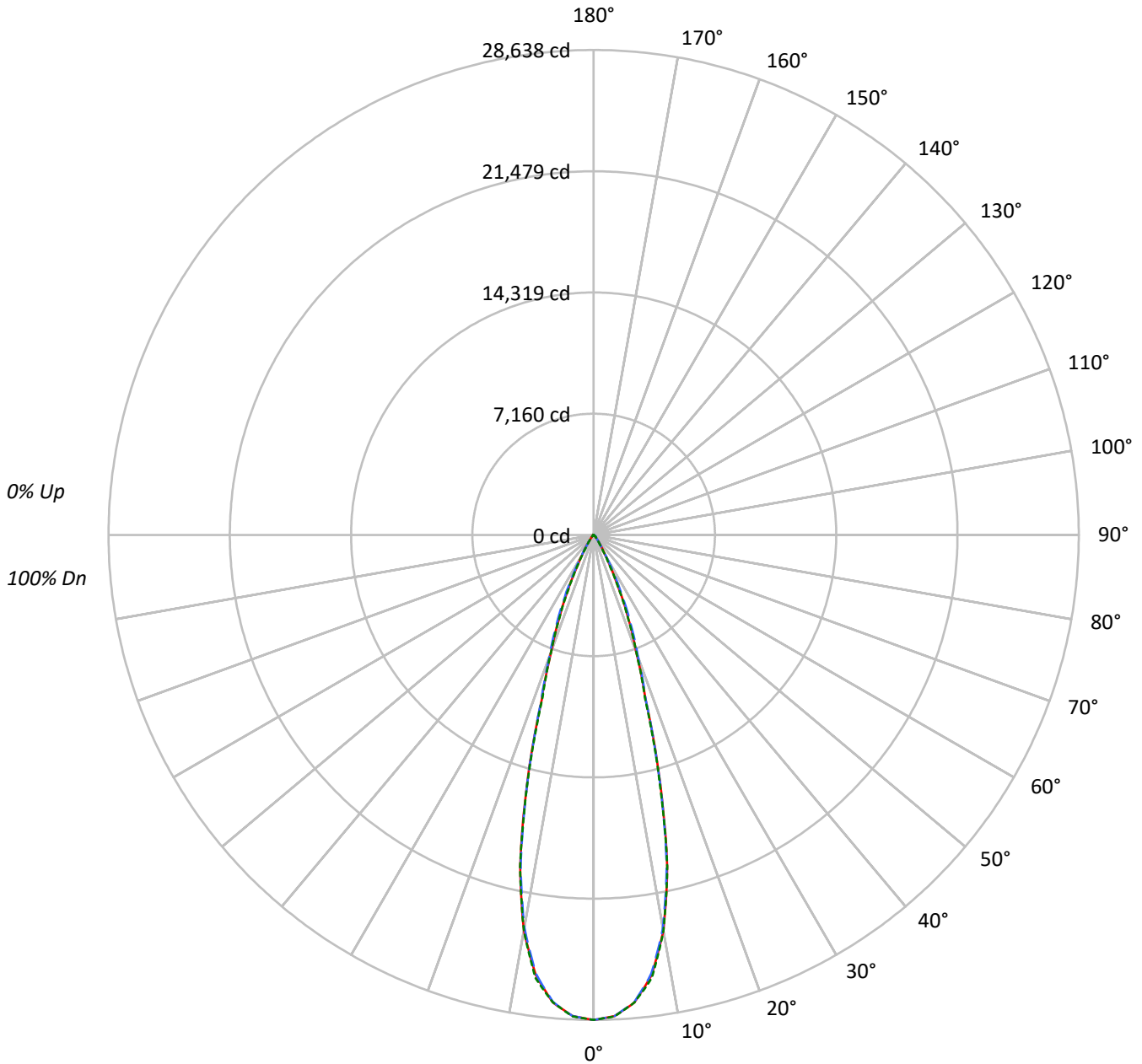
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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																			
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°	2192019	2192019	2192019
5°	2129089	2126607	2129196
10°	1844115	1831112	1843680
15°	1203195	1196728	1190714
20°	598293	620742	597486
25°	301374	339852	295200
30°	120663	131481	105134
35°	55972	53608	44936
40°	24161	26829	22762
45°	17049	21152	17201
50°	5859	15409	6192
55°	3376	6379	3563
60°	2373	2801	2373
65°	1521	1521	1521
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: 21152 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2518.2	28.3
10°-20°	4055.6	45.5
20°-30°	1752.6	19.7
30°-40°	399.4	4.5
40°-50°	137.1	1.5
50°-60°	33.5	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°	8326.4	93.5
0°-40°	8725.9	98.0
0°-60°	8896.5	99.9
0°-90°	8906.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8906.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28638	28638	28638	28638	28638	
5°	27710	27683	27677	27735	27711	2520
15°	15184	15001	15102	15053	15026	4066
25°	3568	3703	4024	3609	3495	1708
35°	599	612	574	569	481	406
45°	158	195	195	195	159	112
55°	25	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°	28637.6	28637.6	28637.6	28637.6	28637.6
2.5°	28447.8	28428.1	28439.3	28453.4	28459.0
5°	27709.6	27682.9	27677.3	27734.9	27711.0
7.5°	26220.6	26182.7	26125.0	26255.8	26378.1
10°	23726.4	23684.2	23559.1	23620.9	23720.8
12.5°	20044.0	19907.7	19904.8	20101.7	20075.0
15°	15183.5	15000.7	15101.9	15052.7	15026.0
17.5°	10210.4	10140.1	10275.1	10234.3	10058.6
20°	7345.0	7363.3	7620.6	7491.2	7335.1
22.5°	5359.7	5425.8	5730.9	5397.7	5275.3
25°	3568.4	3703.4	4024.0	3609.2	3495.3
27.5°	2194.8	2256.6	2581.4	2166.7	2104.8
30°	1365.2	1334.3	1487.6	1276.7	1189.5
32.5°	895.6	856.3	905.5	812.7	742.4
35°	599.0	611.6	573.7	569.4	480.9
37.5°	374.0	430.2	379.6	404.9	309.3
40°	241.8	312.1	268.5	296.7	227.8
42.5°	198.2	240.4	220.7	234.8	202.5
45°	157.5	195.4	195.4	195.4	158.9
47.5°	87.2	130.8	167.3	133.6	92.8
50°	49.2	66.1	129.4	68.9	52.0
52.5°	33.7	38.0	88.6	39.4	35.2
55°	25.3	26.7	47.8	28.1	26.7
57.5°	19.7	21.1	25.3	21.1	19.7
60°	15.5	15.5	18.3	16.9	15.5
62.5°	11.2	11.2	12.7	11.2	11.2
65°	8.4	8.4	8.4	8.4	8.4
67.5°	4.2	5.6	5.6	5.6	5.6
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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