

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: P771874

Luminaire Tested: LD6D80BD010-EU6DR3070959035-6LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P771874
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-EU6DR3070959035-6LBDP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8508.3 lumens
Efficiency: N/A
Efficacy: 107.8 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): 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

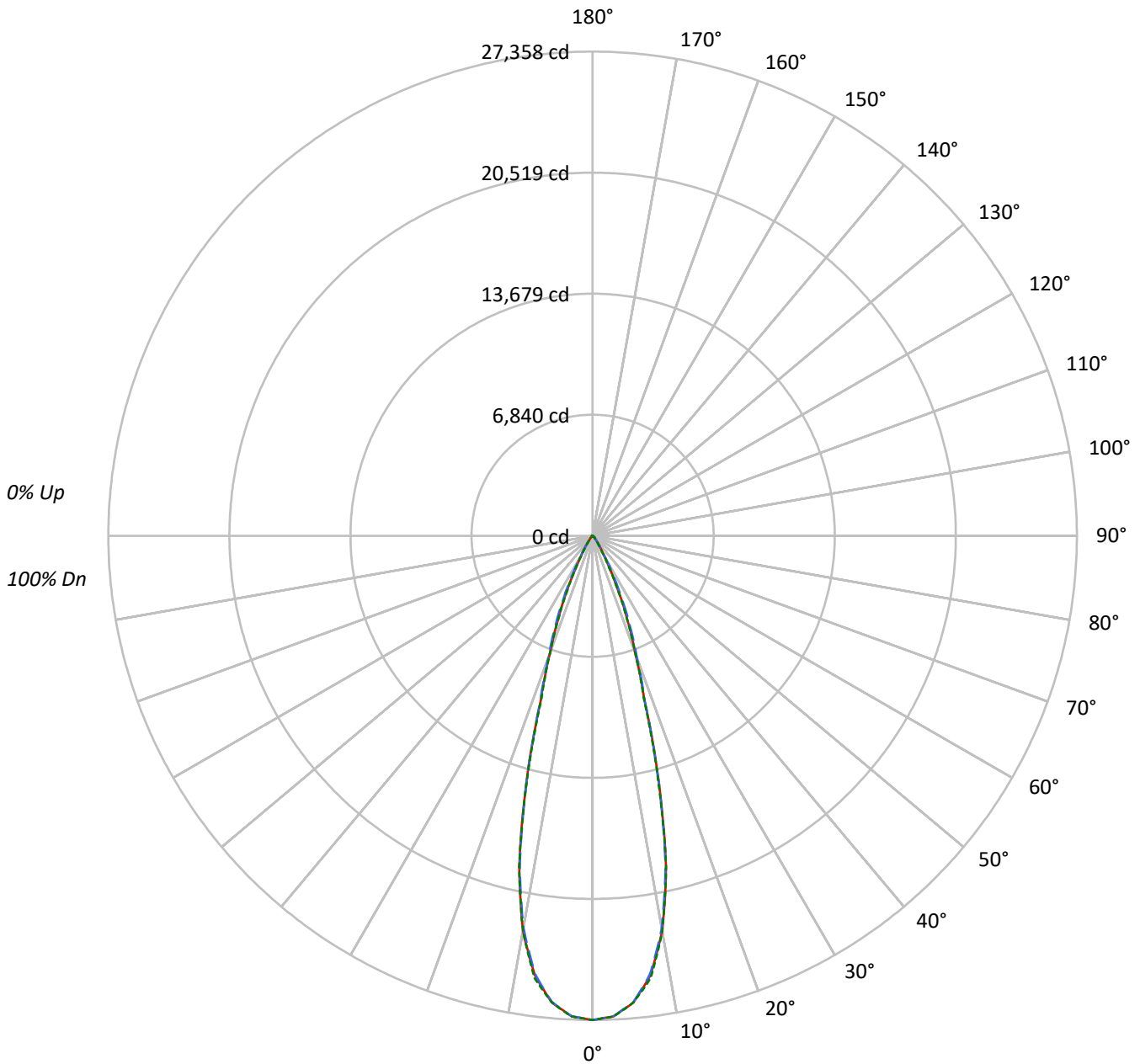


Downlight

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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°	2094112	2094112	2094112
5°	2033997	2031623	2034097
10°	1761751	1749323	1761331
15°	1149452	1143278	1137533
20°	571567	593014	570801
25°	287920	324675	282016
30°	115280	125603	100440
35°	53468	51206	42927
40°	23082	25640	21743
45°	16281	20210	16432
50°	5597	14718	5918
55°	3229	6099	3403
60°	2266	2679	2266
65°	1467	1467	1467
70°	895	604	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: 20210 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2405.8	28.3
10°-20°	3874.5	45.5
20°-30°	1674.3	19.7
30°-40°	381.6	4.5
40°-50°	131.0	1.5
50°-60°	32.0	0.4
60°-70°	8.3	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°	7954.6	93.5
0°-40°	8336.1	98.0
0°-60°	8499.2	99.9
0°-90°	8508.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8508.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27358	27358	27358	27358	27358	
5°	26472	26446	26441	26496	26473	2408
15°	14505	14331	14427	14380	14355	3884
25°	3409	3538	3844	3448	3339	1632
35°	572	584	548	544	459	388
45°	150	187	187	187	152	107
55°	24	26	46	27	26	24
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°	27358.5	27358.5	27358.5	27358.5	27358.5
2.5°	27177.2	27158.4	27169.1	27182.5	27187.9
5°	26472.0	26446.5	26441.1	26496.2	26473.3
7.5°	25049.5	25013.3	24958.2	25083.1	25200.0
10°	22666.7	22626.4	22506.8	22565.9	22661.3
12.5°	19148.8	19018.5	19015.8	19203.9	19178.3
15°	14505.3	14330.7	14427.4	14380.4	14354.9
17.5°	9754.4	9687.2	9816.2	9777.2	9609.3
20°	7016.9	7034.4	7280.2	7156.6	7007.5
22.5°	5120.3	5183.4	5474.9	5156.6	5039.7
25°	3409.1	3538.0	3844.3	3448.0	3339.2
27.5°	2096.8	2155.9	2466.1	2069.9	2010.8
30°	1304.3	1274.7	1421.1	1219.6	1136.4
32.5°	855.6	818.0	865.0	776.4	709.2
35°	572.2	584.3	548.0	544.0	459.4
37.5°	357.3	411.0	362.7	386.8	295.5
40°	231.0	298.2	256.6	283.4	217.6
42.5°	189.4	229.7	210.9	224.3	193.4
45°	150.4	186.7	186.7	186.7	151.8
47.5°	83.3	124.9	159.8	127.6	88.7
50°	47.0	63.1	123.6	65.8	49.7
52.5°	32.2	36.3	84.6	37.6	33.6
55°	24.2	25.5	45.7	26.9	25.5
57.5°	18.8	20.1	24.2	20.1	18.8
60°	14.8	14.8	17.5	16.1	14.8
62.5°	10.7	10.7	12.1	10.7	10.7
65°	8.1	8.1	8.1	8.1	8.1
67.5°	4.0	5.4	5.4	5.4	5.4
70°	4.0	2.7	2.7	2.7	4.0
72.5°	2.7	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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