

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: P771875

Luminaire Tested: LD6D80BD010-EU6DR3070959035-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P771875
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-EU6DR3070959035-6LBS1B
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9413.2 lumens
Efficiency: N/A
Efficacy: 119.3 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

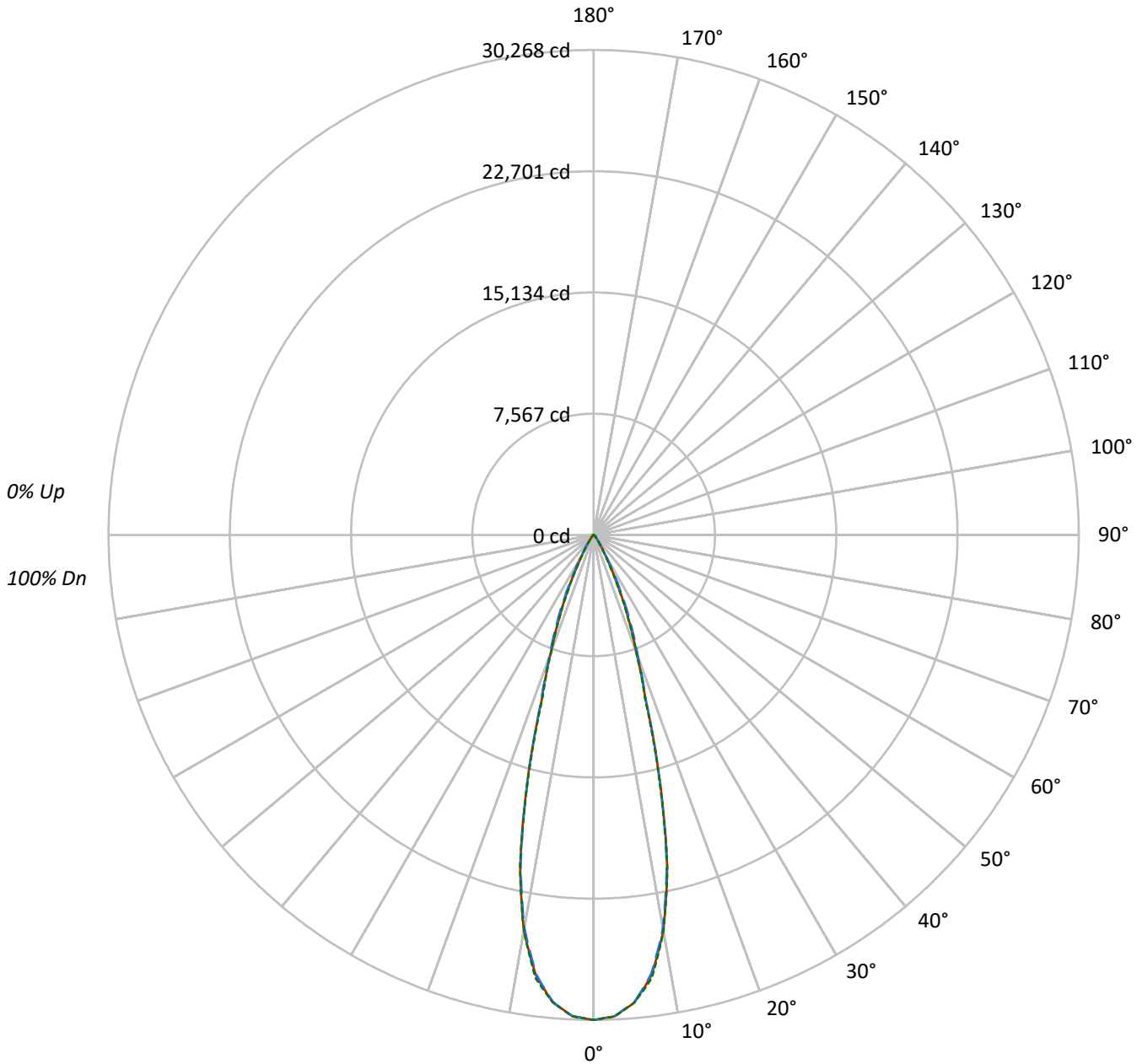
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	2316816	2316816	2316816
5°	2250305	2247685	2250420
10°	1949105	1935364	1948647
15°	1271693	1264870	1258507
20°	632358	656077	631510
25°	318535	359201	312007
30°	127539	138958	111117
35°	59158	56654	47487
40°	25540	28357	24051
45°	18013	22364	18175
50°	6192	16278	6549
55°	3563	6739	3763
60°	2495	2955	2495
65°	1612	1612	1612
70°	1007	671	1007
75°	0	444	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 22364 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2661.6	28.3
10°-20°	4286.6	45.5
20°-30°	1852.3	19.7
30°-40°	422.2	4.5
40°-50°	145.0	1.5
50°-60°	35.4	0.4
60°-70°	9.2	0.1
70°-80°	1.0	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°	8800.5	93.5
0°-40°	9222.7	98.0
0°-60°	9403.0	99.9
0°-90°	9413.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9413.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30268	30268	30268	30268	30268	
5°	29287	29259	29253	29314	29289	2664
15°	16048	15855	15962	15910	15882	4297
25°	3772	3914	4253	3815	3694	1805
35°	633	646	606	602	508	429
45°	166	207	207	207	168	118
55°	27	28	50	30	28	26
65°	9	9	9	9	9	9
75°	0	0	2	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°	30268.0	30268.0	30268.0	30268.0	30268.0
2.5°	30067.4	30046.6	30058.5	30073.4	30079.3
5°	29287.2	29259.0	29253.1	29314.0	29288.7
7.5°	27713.5	27673.4	27612.5	27750.7	27879.9
10°	25077.2	25032.7	24900.4	24965.8	25071.3
12.5°	21185.2	21041.1	21038.1	21246.2	21217.9
15°	16047.9	15854.8	15961.8	15909.7	15881.5
17.5°	10791.8	10717.5	10860.1	10817.0	10631.3
20°	7763.2	7782.5	8054.4	7917.7	7752.8
22.5°	5664.9	5734.7	6057.2	5705.0	5575.7
25°	3771.6	3914.3	4253.1	3814.7	3694.3
27.5°	2319.7	2385.1	2728.4	2290.0	2224.6
30°	1443.0	1410.3	1572.2	1349.3	1257.2
32.5°	946.6	905.0	957.0	858.9	784.6
35°	633.1	646.4	606.3	601.9	508.2
37.5°	395.3	454.7	401.2	428.0	326.9
40°	255.6	329.9	283.8	313.6	240.7
42.5°	209.5	254.1	233.3	248.2	214.0
45°	166.4	206.6	206.6	206.6	167.9
47.5°	92.1	138.2	176.8	141.2	98.1
50°	52.0	69.8	136.7	72.8	55.0
52.5°	35.7	40.1	93.6	41.6	37.2
55°	26.7	28.2	50.5	29.7	28.2
57.5°	20.8	22.3	26.7	22.3	20.8
60°	16.3	16.3	19.3	17.8	16.3
62.5°	11.9	11.9	13.4	11.9	11.9
65°	8.9	8.9	8.9	8.9	8.9
67.5°	4.5	5.9	5.9	5.9	5.9
70°	4.5	3.0	3.0	3.0	4.5
72.5°	3.0	1.5	1.5	1.5	1.5
75°	0.0	0.0	1.5	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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