

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: P753795

Luminaire Tested: LD4D80BD010-EU4DR3070959030-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753795
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D80BD010-EU4DR3070959030-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7431.9 lumens
Efficiency: N/A
Efficacy: 94.2 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

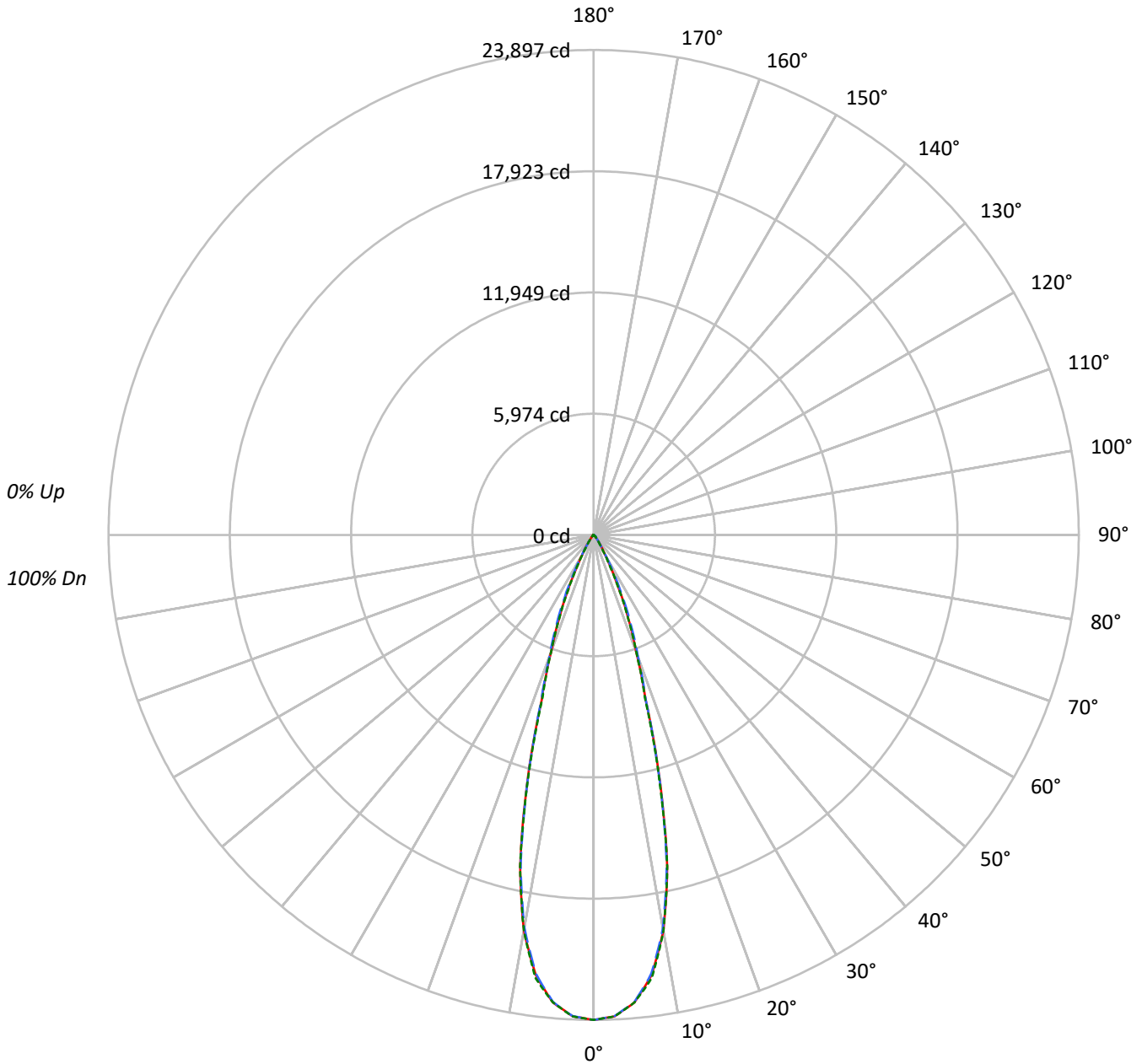
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1829165	1829165	1829165
5°	1776658	1774584	1776743
10°	1538854	1528003	1538488
15°	1004024	998635	993611
20°	499259	517985	498583
25°	251494	283596	246334
30°	100688	109712	87731
35°	46702	44731	37498
40°	20164	22392	18995
45°	14224	17655	14354
50°	4894	12849	5168
55°	2816	5325	2976
60°	1975	2342	1975
65°	1268	1268	1268
70°	783	515	783
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 17655 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2101.4	28.3
10°-20°	3384.3	45.5
20°-30°	1462.4	19.7
30°-40°	333.3	4.5
40°-50°	114.4	1.5
50°-60°	28.0	0.4
60°-70°	7.2	0.1
70°-80°	0.8	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°	6948.1	93.5
0°-40°	7281.5	98.0
0°-60°	7423.9	99.9
0°-90°	7431.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7431.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23897	23897	23897	23897	23897	
5°	23123	23100	23096	23144	23124	2103
15°	12670	12518	12602	12561	12539	3393
25°	2978	3090	3358	3012	2917	1425
35°	500	510	479	475	401	339
45°	131	163	163	163	133	93
55°	21	22	40	24	22	21
65°	7	7	7	7	7	7
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°	23897.1	23897.1	23897.1	23897.1	23897.1
2.5°	23738.7	23722.3	23731.7	23743.4	23748.1
5°	23122.8	23100.5	23095.8	23143.9	23123.9
7.5°	21880.3	21848.6	21800.5	21909.6	22011.7
10°	19798.9	19763.7	19659.3	19710.9	19794.2
12.5°	16726.1	16612.3	16610.0	16774.2	16751.9
15°	12670.1	12517.6	12602.1	12561.0	12538.7
17.5°	8520.3	8461.6	8574.2	8540.2	8393.6
20°	6129.2	6144.4	6359.1	6251.2	6120.9
22.5°	4472.5	4527.6	4782.2	4504.2	4402.1
25°	2977.8	3090.4	3357.9	3011.8	2916.7
27.5°	1831.5	1883.1	2154.1	1808.0	1756.4
30°	1139.2	1113.4	1241.3	1065.3	992.6
32.5°	747.4	714.5	755.6	678.1	619.5
35°	499.8	510.4	478.7	475.2	401.3
37.5°	312.1	359.0	316.8	337.9	258.1
40°	201.8	260.5	224.1	247.6	190.1
42.5°	165.4	200.6	184.2	195.9	169.0
45°	131.4	163.1	163.1	163.1	132.6
47.5°	72.7	109.1	139.6	111.5	77.4
50°	41.1	55.1	107.9	57.5	43.4
52.5°	28.2	31.7	73.9	32.9	29.3
55°	21.1	22.3	39.9	23.5	22.3
57.5°	16.4	17.6	21.1	17.6	16.4
60°	12.9	12.9	15.3	14.1	12.9
62.5°	9.4	9.4	10.6	9.4	9.4
65°	7.0	7.0	7.0	7.0	7.0
67.5°	3.5	4.7	4.7	4.7	4.7
70°	3.5	2.3	2.3	2.3	3.5
72.5°	2.3	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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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