

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: P753834

Luminaire Tested: LD4D80BD010-EU4DR3070959050-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753834
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-EU4DR3070959050-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7917.4 lumens
Efficiency: N/A
Efficacy: 100.3 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

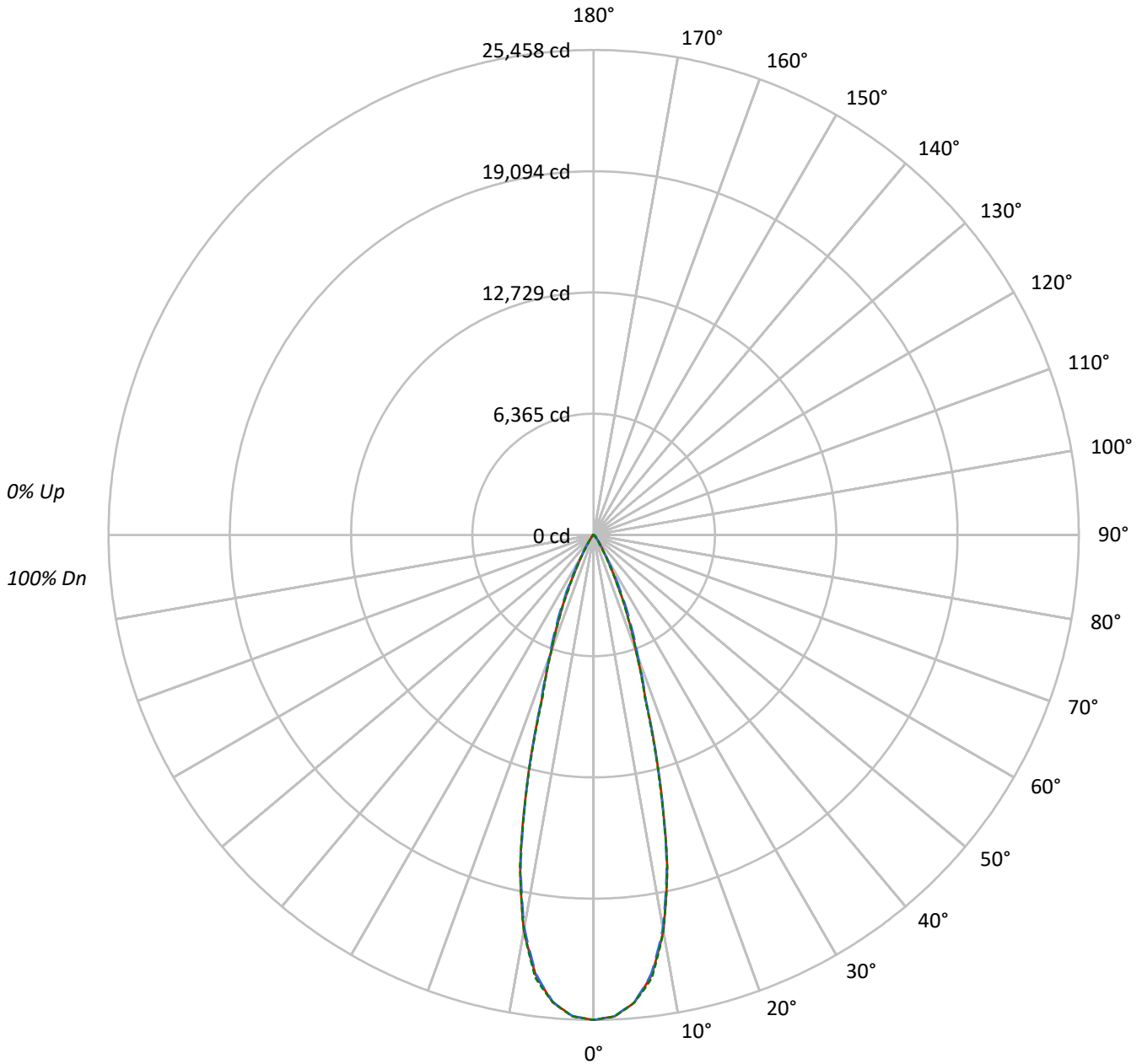
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	1948672	1948672	1948672
5°	1892734	1890521	1892826
10°	1639390	1627832	1639001
15°	1069622	1063876	1058527
20°	531874	551830	531157
25°	267921	302125	262431
30°	107273	116880	93458
35°	49758	47656	39947
40°	21483	23851	20234
45°	15155	18803	15285
50°	5204	13694	5502
55°	3003	5672	3163
60°	2097	2480	2097
65°	1358	1358	1358
70°	828	559	828
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 18803 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2238.7	28.3
10°-20°	3605.4	45.5
20°-30°	1558.0	19.7
30°-40°	355.1	4.5
40°-50°	121.9	1.5
50°-60°	29.8	0.4
60°-70°	7.7	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°	7402.1	93.5
0°-40°	7757.2	98.0
0°-60°	7908.9	99.9
0°-90°	7917.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7917.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25458	25458	25458	25458	25458	
5°	24634	24610	24605	24656	24635	2241
15°	13498	13335	13425	13382	13358	3614
25°	3172	3292	3577	3208	3107	1518
35°	532	544	510	506	428	361
45°	140	174	174	174	141	99
55°	22	24	42	25	24	22
65°	8	8	8	8	8	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°	25458.4	25458.4	25458.4	25458.4	25458.4
2.5°	25289.7	25272.2	25282.2	25294.7	25299.7
5°	24633.5	24609.7	24604.7	24656.0	24634.7
7.5°	23309.8	23276.0	23224.8	23341.0	23449.8
10°	21092.4	21054.9	20943.7	20998.7	21087.4
12.5°	17818.9	17697.6	17695.1	17870.1	17846.4
15°	13497.9	13335.4	13425.4	13381.7	13357.9
17.5°	9076.9	9014.4	9134.4	9098.2	8941.9
20°	6529.6	6545.8	6774.6	6659.6	6520.8
22.5°	4764.7	4823.4	5094.7	4798.4	4689.7
25°	3172.3	3292.3	3577.3	3208.5	3107.3
27.5°	1951.1	2006.1	2294.9	1926.1	1871.1
30°	1213.7	1186.2	1322.4	1134.9	1057.4
32.5°	796.2	761.2	804.9	722.5	660.0
35°	532.5	543.7	510.0	506.2	427.5
37.5°	332.5	382.5	337.5	360.0	275.0
40°	215.0	277.5	238.7	263.7	202.5
42.5°	176.2	213.7	196.2	208.7	180.0
45°	140.0	173.7	173.7	173.7	141.2
47.5°	77.5	116.2	148.7	118.7	82.5
50°	43.7	58.7	115.0	61.2	46.2
52.5°	30.0	33.7	78.7	35.0	31.2
55°	22.5	23.7	42.5	25.0	23.7
57.5°	17.5	18.7	22.5	18.7	17.5
60°	13.7	13.7	16.2	15.0	13.7
62.5°	10.0	10.0	11.2	10.0	10.0
65°	7.5	7.5	7.5	7.5	7.5
67.5°	3.7	5.0	5.0	5.0	5.0
70°	3.7	2.5	2.5	2.5	3.7
72.5°	2.5	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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