

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: P753809

Luminaire Tested: LD4D80BD010-EU4DR3070959035-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753809
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-EU4DR3070959035-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7885.7 lumens
Efficiency: N/A
Efficacy: 99.9 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

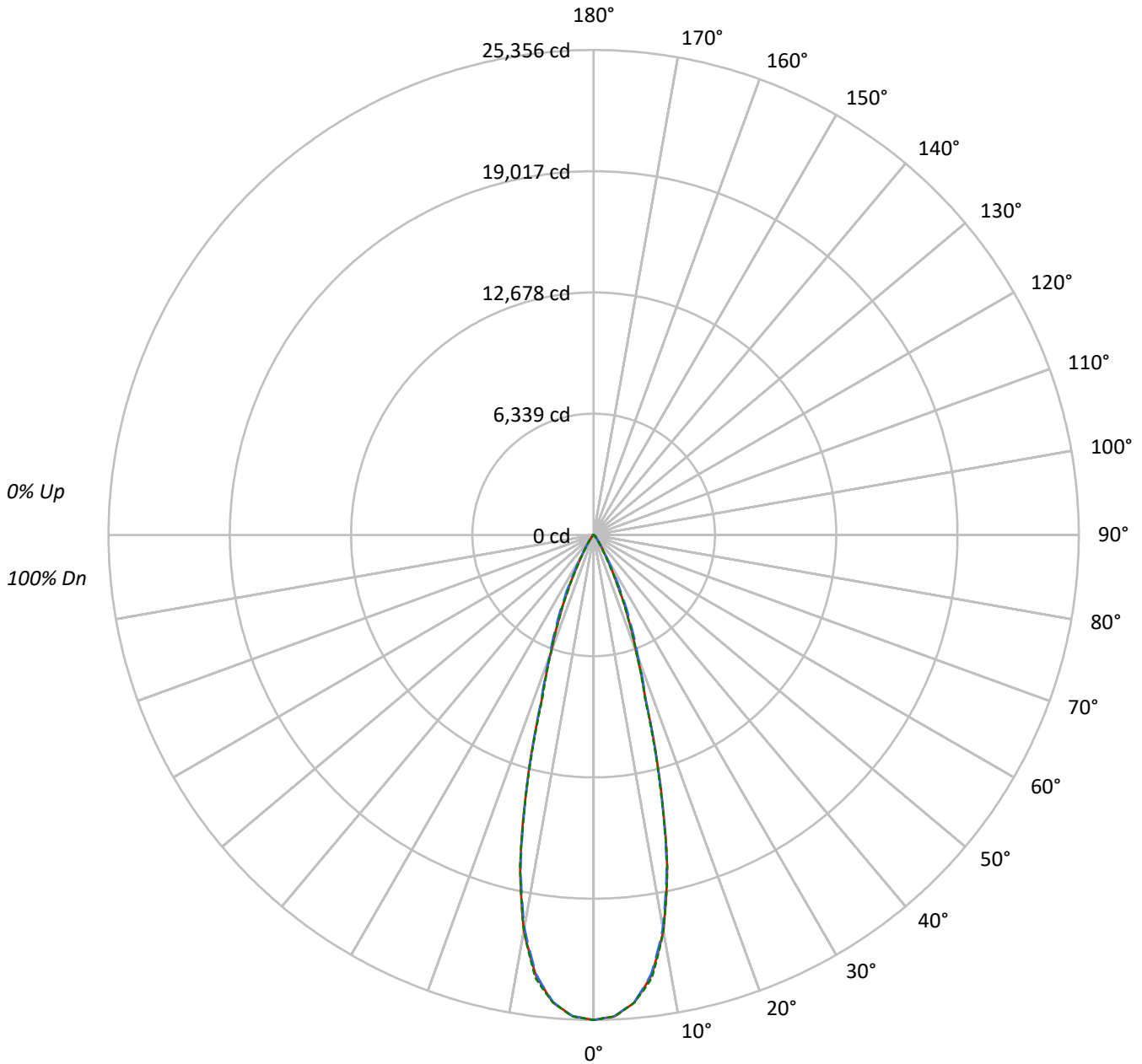
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	1940857	1940857	1940857
5°	1885135	1882938	1885235
10°	1632814	1621304	1632426
15°	1065334	1059613	1054280
20°	529740	549615	529031
25°	266848	300909	261375
30°	106839	116411	93087
35°	49552	47459	39788
40°	21393	23761	20154
45°	15090	18727	15231
50°	5192	13635	5490
55°	2989	5645	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: 18727 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2229.7	28.3
10°-20°	3591.0	45.5
20°-30°	1551.7	19.7
30°-40°	353.7	4.5
40°-50°	121.4	1.5
50°-60°	29.7	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°	7372.4	93.5
0°-40°	7726.1	98.0
0°-60°	7877.2	99.9
0°-90°	7885.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7885.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25356	25356	25356	25356	25356	
5°	24535	24511	24506	24557	24536	2232
15°	13444	13282	13372	13328	13304	3600
25°	3160	3279	3563	3196	3095	1512
35°	530	542	508	504	426	360
45°	139	173	173	173	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°	25356.3	25356.3	25356.3	25356.3	25356.3
2.5°	25188.2	25170.8	25180.8	25193.2	25198.2
5°	24534.6	24511.0	24506.0	24557.1	24535.9
7.5°	23216.3	23182.7	23131.6	23247.4	23355.7
10°	21007.8	20970.5	20859.7	20914.5	21002.8
12.5°	17747.4	17626.7	17624.2	17798.4	17774.8
15°	13443.8	13281.9	13371.6	13328.0	13304.3
17.5°	9040.5	8978.3	9097.8	9061.7	8906.1
20°	6503.4	6519.6	6747.4	6632.9	6494.7
22.5°	4745.6	4804.1	5074.2	4779.2	4670.9
25°	3159.6	3279.1	3562.9	3195.7	3094.8
27.5°	1943.3	1998.1	2285.7	1918.4	1863.6
30°	1208.8	1181.4	1317.1	1130.4	1053.2
32.5°	793.0	758.1	801.7	719.6	657.3
35°	530.3	541.5	507.9	504.2	425.8
37.5°	331.1	380.9	336.1	358.5	273.9
40°	214.1	276.4	237.8	262.7	201.7
42.5°	175.5	212.9	195.5	207.9	179.3
45°	139.4	173.0	173.0	173.0	140.7
47.5°	77.2	115.8	148.1	118.3	82.2
50°	43.6	58.5	114.5	61.0	46.1
52.5°	29.9	33.6	78.4	34.9	31.1
55°	22.4	23.7	42.3	24.9	23.7
57.5°	17.4	18.7	22.4	18.7	17.4
60°	13.7	13.7	16.2	14.9	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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