

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: P754562

Luminaire Tested: LD4D85BD010-EU4DR3070959027-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754562
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: LD4D85BD010-EU4DR3070959027-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7679.7 lumens
Efficiency: N/A
Efficacy: 87.6 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

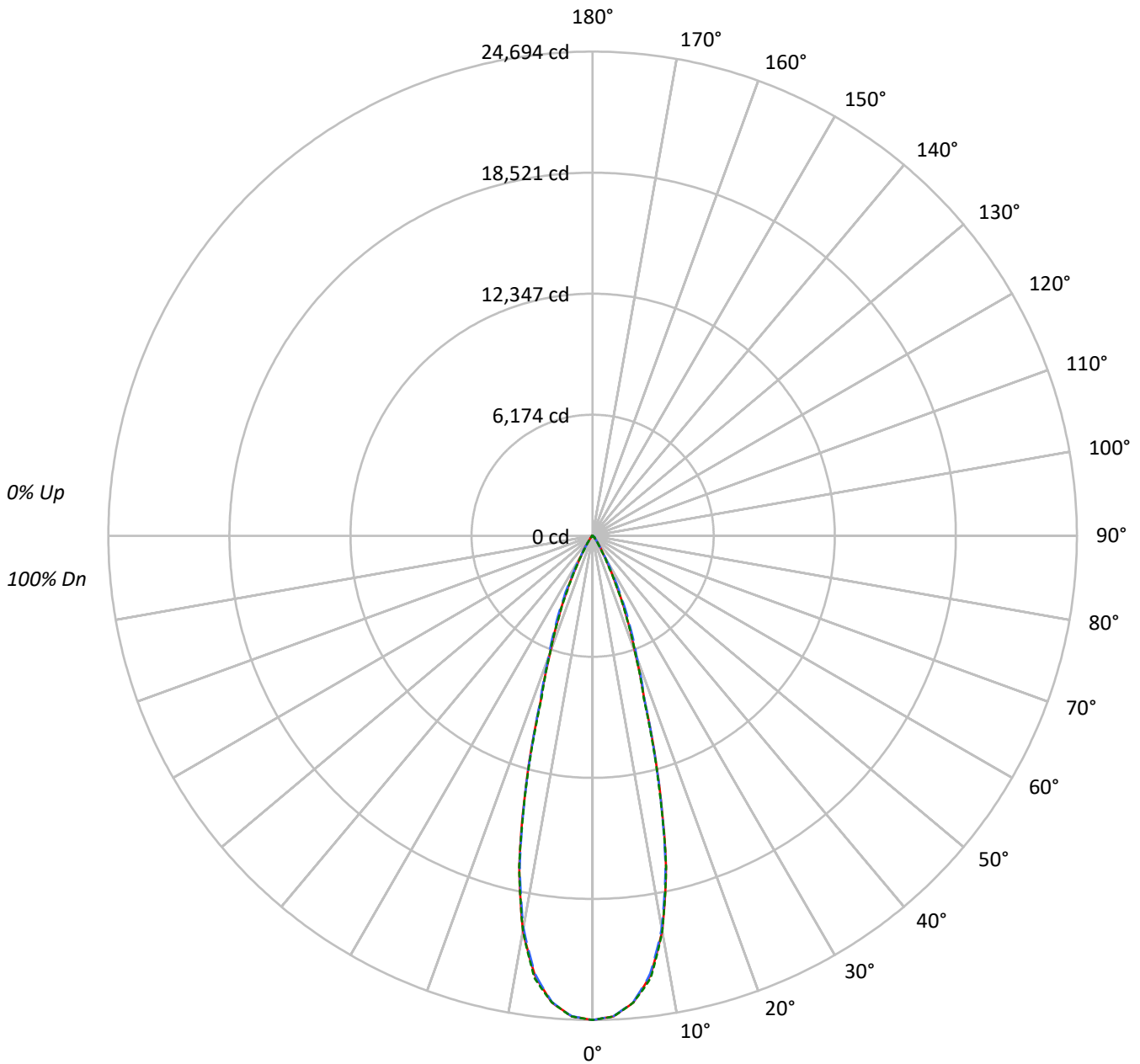
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1890163	1890163	1890163
5°	1835899	1833755	1835991
10°	1590167	1578952	1589786
15°	1037504	1031933	1026743
20°	515900	535262	515208
25°	259872	293055	254551
30°	104046	113371	90656
35°	48263	46226	38741
40°	20833	23142	19624
45°	14700	18240	14830
50°	5049	13277	5347
55°	2909	5498	3069
60°	2036	2419	2036
65°	1322	1322	1322
70°	806	537	806
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 18240 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2171.5	28.3
10°-20°	3497.2	45.5
20°-30°	1511.2	19.7
30°-40°	344.4	4.5
40°-50°	118.3	1.5
50°-60°	28.9	0.4
60°-70°	7.5	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°	7179.8	93.5
0°-40°	7524.3	98.0
0°-60°	7671.4	99.9
0°-90°	7679.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7679.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24694	24694	24694	24694	24694	
5°	23894	23871	23866	23916	23895	2173
15°	13093	12935	13022	12980	12957	3506
25°	3077	3193	3470	3112	3014	1473
35°	516	527	495	491	415	350
45°	136	168	168	168	137	96
55°	22	23	41	24	23	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°	24694.0	24694.0	24694.0	24694.0	24694.0
2.5°	24530.3	24513.3	24523.0	24535.1	24540.0
5°	23893.8	23870.8	23865.9	23915.6	23895.0
7.5°	22609.9	22577.1	22527.4	22640.2	22745.7
10°	20459.1	20422.7	20314.8	20368.2	20454.2
12.5°	17283.8	17166.2	17163.8	17333.5	17310.5
15°	13092.6	12935.0	13022.3	12979.9	12956.8
17.5°	8804.4	8743.8	8860.2	8825.0	8673.4
20°	6333.5	6349.3	6571.2	6459.6	6325.0
22.5°	4621.6	4678.6	4941.7	4654.4	4548.9
25°	3077.0	3193.4	3469.9	3112.2	3014.0
27.5°	1892.5	1945.9	2225.9	1868.3	1814.9
30°	1177.2	1150.6	1282.7	1100.9	1025.7
32.5°	772.3	738.3	780.8	700.8	640.1
35°	516.5	527.4	494.7	491.0	414.6
37.5°	322.5	371.0	327.3	349.2	266.7
40°	208.5	269.2	231.6	255.8	196.4
42.5°	170.9	207.3	190.3	202.5	174.6
45°	135.8	168.5	168.5	168.5	137.0
47.5°	75.2	112.8	144.3	115.2	80.0
50°	42.4	57.0	111.5	59.4	44.9
52.5°	29.1	32.7	76.4	33.9	30.3
55°	21.8	23.0	41.2	24.2	23.0
57.5°	17.0	18.2	21.8	18.2	17.0
60°	13.3	13.3	15.8	14.5	13.3
62.5°	9.7	9.7	10.9	9.7	9.7
65°	7.3	7.3	7.3	7.3	7.3
67.5°	3.6	4.8	4.8	4.8	4.8
70°	3.6	2.4	2.4	2.4	3.6
72.5°	2.4	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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