

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: P751482

Luminaire Tested: LD4D65D010-EU4DR3055659040-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751482
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: LD4D65D010-EU4DR3055659040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7217.3 lumens
Efficiency: N/A
Efficacy: 99.1 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

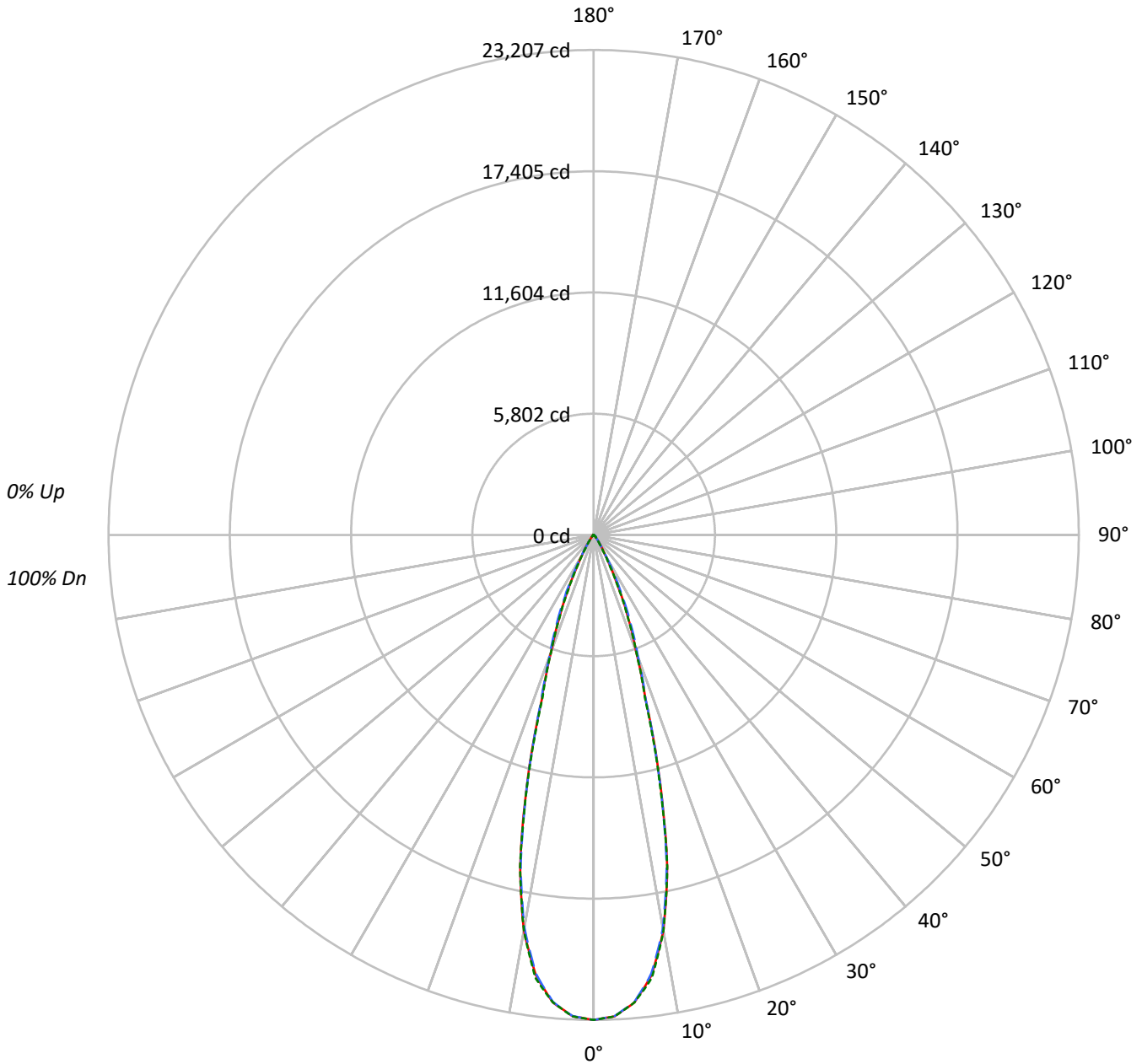
Input Watts (W): 72.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1776358	1776358	1776358
5°	1725363	1723350	1725455
10°	1494427	1483887	1494077
15°	975044	969806	964925
20°	484841	503030	484189
25°	244231	275412	239222
30°	97789	106548	85194
35°	45357	43441	36414
40°	19584	21743	18445
45°	13813	17147	13942
50°	4751	12480	5025
55°	2736	5164	2883
60°	1914	2266	1914
65°	1232	1232	1232
70°	761	515	761
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 17147 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2040.7	28.3
10°-20°	3286.6	45.5
20°-30°	1420.2	19.7
30°-40°	323.7	4.5
40°-50°	111.1	1.5
50°-60°	27.1	0.4
60°-70°	7.0	0.1
70°-80°	0.7	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°	6747.6	93.5
0°-40°	7071.3	98.0
0°-60°	7209.6	99.9
0°-90°	7217.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7217.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23207	23207	23207	23207	23207	
5°	22455	22434	22429	22476	22456	2042
15°	12304	12156	12238	12198	12177	3295
25°	2892	3001	3261	2925	2832	1384
35°	485	496	465	462	390	329
45°	128	158	158	158	129	91
55°	20	22	39	23	22	20
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°	23207.2	23207.2	23207.2	23207.2	23207.2
2.5°	23053.4	23037.5	23046.6	23058.0	23062.5
5°	22455.2	22433.6	22429.0	22475.8	22456.4
7.5°	21248.6	21217.9	21171.1	21277.1	21376.2
10°	19227.3	19193.1	19091.7	19141.9	19222.8
12.5°	16243.2	16132.7	16130.4	16290.0	16268.3
15°	12304.4	12156.2	12238.3	12198.4	12176.7
17.5°	8274.3	8217.3	8326.7	8293.7	8151.2
20°	5952.2	5967.0	6175.5	6070.7	5944.2
22.5°	4343.4	4396.9	4644.2	4374.1	4275.0
25°	2891.8	3001.2	3261.0	2924.8	2832.5
27.5°	1778.6	1828.7	2091.9	1755.8	1705.7
30°	1106.4	1081.3	1205.5	1034.6	963.9
32.5°	725.8	693.9	733.8	658.6	601.6
35°	485.4	495.6	464.9	461.5	389.7
37.5°	303.1	348.7	307.6	328.1	250.7
40°	196.0	252.9	217.6	240.4	184.6
42.5°	160.7	194.8	178.9	190.3	164.1
45°	127.6	158.4	158.4	158.4	128.8
47.5°	70.6	106.0	135.6	108.2	75.2
50°	39.9	53.6	104.8	55.8	42.2
52.5°	27.3	30.8	71.8	31.9	28.5
55°	20.5	21.6	38.7	22.8	21.6
57.5°	16.0	17.1	20.5	17.1	16.0
60°	12.5	12.5	14.8	13.7	12.5
62.5°	9.1	9.1	10.3	9.1	9.1
65°	6.8	6.8	6.8	6.8	6.8
67.5°	3.4	4.6	4.6	4.6	4.6
70°	3.4	2.3	2.3	2.3	3.4
72.5°	2.3	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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