

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: P749908

Luminaire Tested: LD4D55D010-EU4DR3055659035-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749908
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: LD4D55D010-EU4DR3055659035-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-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: 5399.4 lumens
Efficiency: N/A
Efficacy: 92.8 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

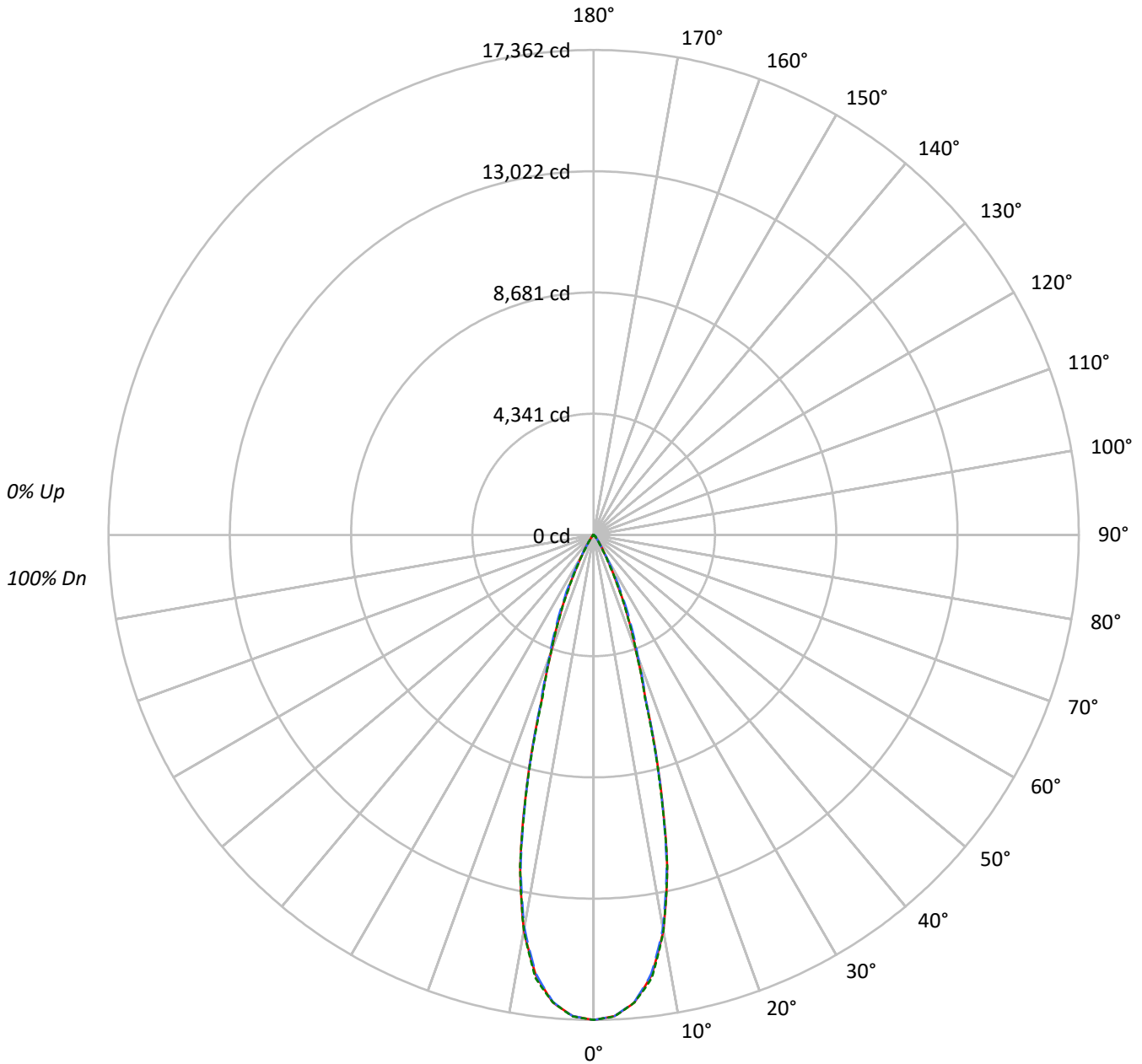
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1328923	1328923	1328923
5°	1290772	1289266	1290833
10°	1118000	1110119	1117736
15°	729445	725522	721877
20°	362714	376326	362234
25°	182713	206040	178971
30°	73156	79705	63734
35°	33929	32499	27238
40°	14648	16267	13799
45°	10338	12827	10424
50°	3549	9336	3751
55°	2042	3870	2162
60°	1439	1699	1439
65°	924	924	924
70°	582	380	582
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 12827 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1526.7	28.3
10°-20°	2458.8	45.5
20°-30°	1062.5	19.7
30°-40°	242.2	4.5
40°-50°	83.2	1.5
50°-60°	20.3	0.4
60°-70°	5.3	0.1
70°-80°	0.6	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°	5047.9	93.5
0°-40°	5290.1	98.0
0°-60°	5393.6	99.9
0°-90°	5399.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5399.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17362	17362	17362	17362	17362	
5°	16799	16783	16780	16814	16800	1528
15°	9205	9094	9156	9126	9110	2465
25°	2163	2245	2440	2188	2119	1036
35°	363	371	348	345	292	246
45°	96	118	118	118	96	68
55°	15	16	29	17	16	15
65°	5	5	5	5	5	5
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°	17361.7	17361.7	17361.7	17361.7	17361.7
2.5°	17246.6	17234.6	17241.5	17250.0	17253.4
5°	16799.1	16782.9	16779.5	16814.4	16799.9
7.5°	15896.4	15873.4	15838.4	15917.7	15991.8
10°	14384.2	14358.7	14282.8	14320.3	14380.8
12.5°	12151.8	12069.1	12067.4	12186.7	12170.5
15°	9205.1	9094.2	9155.6	9125.8	9109.6
17.5°	6190.1	6147.5	6229.3	6204.6	6098.1
20°	4452.9	4464.0	4620.0	4541.6	4447.0
22.5°	3249.3	3289.4	3474.4	3272.4	3198.2
25°	2163.4	2245.2	2439.6	2188.1	2119.1
27.5°	1330.6	1368.1	1565.0	1313.5	1276.0
30°	827.7	808.9	901.8	774.0	721.1
32.5°	543.0	519.1	548.9	492.7	450.1
35°	363.1	370.8	347.8	345.2	291.5
37.5°	226.7	260.8	230.1	245.5	187.5
40°	146.6	189.2	162.8	179.9	138.1
42.5°	120.2	145.8	133.8	142.4	122.7
45°	95.5	118.5	118.5	118.5	96.3
47.5°	52.8	79.3	101.4	81.0	56.3
50°	29.8	40.1	78.4	41.8	31.5
52.5°	20.5	23.0	53.7	23.9	21.3
55°	15.3	16.2	29.0	17.0	16.2
57.5°	11.9	12.8	15.3	12.8	11.9
60°	9.4	9.4	11.1	10.2	9.4
62.5°	6.8	6.8	7.7	6.8	6.8
65°	5.1	5.1	5.1	5.1	5.1
67.5°	2.6	3.4	3.4	3.4	3.4
70°	2.6	1.7	1.7	1.7	2.6
72.5°	1.7	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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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