

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: P751474

Luminaire Tested: LD4D65D010-EU4DR3055659035-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751474
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-EU4DR3055659035-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6570.4 lumens
Efficiency: N/A
Efficacy: 90.3 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

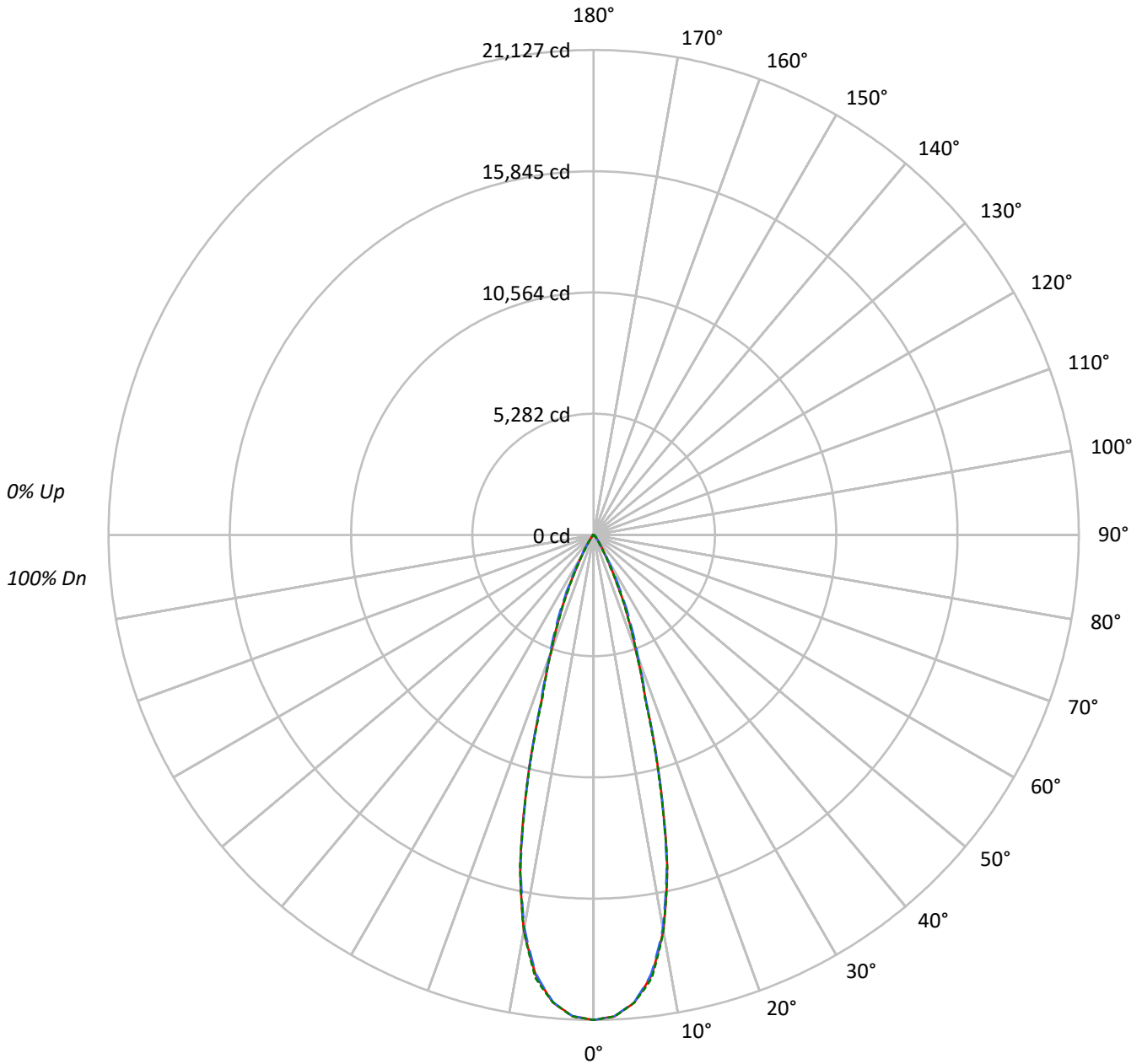
Input Watts (W): 72.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	1617148	1617148	1617148
5°	1570723	1568894	1570808
10°	1360484	1350893	1360166
15°	887647	882884	878446
20°	441384	457944	440798
25°	222340	250725	217787
30°	89021	96993	77558
35°	41292	39545	33144
40°	17826	19794	16787
45°	12578	15609	12687
50°	4323	11360	4573
55°	2496	4711	2629
60°	1745	2067	1745
65°	1123	1123	1123
70°	694	470	694
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 15609 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1857.8	28.3
10°-20°	2992.0	45.5
20°-30°	1292.9	19.7
30°-40°	294.7	4.5
40°-50°	101.2	1.5
50°-60°	24.7	0.4
60°-70°	6.4	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°	6142.8	93.5
0°-40°	6437.5	98.0
0°-60°	6563.4	99.9
0°-90°	6570.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6570.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21127	21127	21127	21127	21127	
5°	20443	20423	20419	20461	20444	1859
15°	11202	11067	11141	11105	11085	2999
25°	2633	2732	2969	2663	2579	1260
35°	442	451	423	420	355	300
45°	116	144	144	144	117	82
55°	19	20	35	21	20	18
65°	6	6	6	6	6	6
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°	21127.2	21127.2	21127.2	21127.2	21127.2
2.5°	20987.2	20972.7	20981.0	20991.3	20995.5
5°	20442.6	20422.9	20418.8	20461.3	20443.7
7.5°	19344.2	19316.1	19273.6	19370.1	19460.3
10°	17504.0	17472.9	17380.6	17426.2	17499.9
12.5°	14787.4	14686.8	14684.7	14829.9	14810.2
15°	11201.5	11066.7	11141.4	11105.1	11085.4
17.5°	7532.7	7480.8	7580.4	7550.3	7420.7
20°	5418.7	5432.2	5622.0	5526.6	5411.5
22.5°	3954.1	4002.8	4227.9	3982.1	3891.9
25°	2632.6	2732.2	2968.7	2662.7	2578.7
27.5°	1619.2	1664.8	1904.4	1598.4	1552.8
30°	1007.2	984.4	1097.4	941.8	877.5
32.5°	660.7	631.7	668.0	599.5	547.7
35°	441.9	451.2	423.2	420.1	354.7
37.5°	275.9	317.4	280.1	298.7	228.2
40°	178.4	230.3	198.1	218.9	168.0
42.5°	146.3	177.4	162.9	173.2	149.4
45°	116.2	144.2	144.2	144.2	117.2
47.5°	64.3	96.5	123.4	98.5	68.5
50°	36.3	48.8	95.4	50.8	38.4
52.5°	24.9	28.0	65.3	29.0	25.9
55°	18.7	19.7	35.3	20.7	19.7
57.5°	14.5	15.6	18.7	15.6	14.5
60°	11.4	11.4	13.5	12.4	11.4
62.5°	8.3	8.3	9.3	8.3	8.3
65°	6.2	6.2	6.2	6.2	6.2
67.5°	3.1	4.1	4.1	4.1	4.1
70°	3.1	2.1	2.1	2.1	3.1
72.5°	2.1	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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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