

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: P751461

Luminaire Tested: LD4D65D010-EU4DR3055659030-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751461
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-EU4DR3055659030-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6502.0 lumens
Efficiency: N/A
Efficacy: 89.3 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

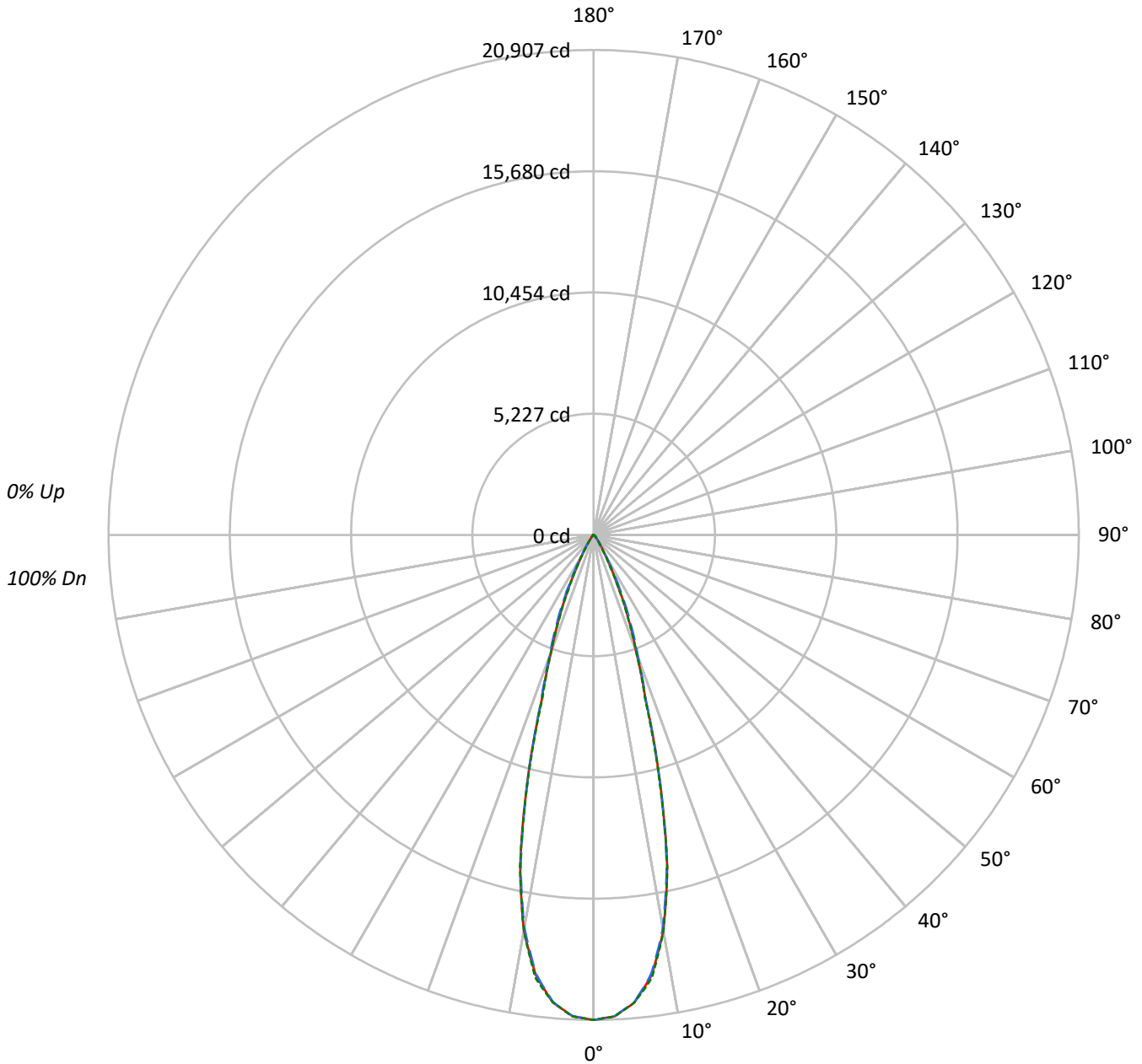
Input Watts (W): 72.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1600293	1600293	1600293
5°	1554349	1552536	1554434
10°	1346308	1336810	1345989
15°	878399	873676	869286
20°	436782	453171	436204
25°	220026	248107	215516
30°	88093	95986	76753
35°	40862	39134	32808
40°	17646	19594	16617
45°	12449	15447	12557
50°	4275	11241	4525
55°	2469	4657	2602
60°	1730	2036	1730
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: 15447 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1838.5	28.3
10°-20°	2960.8	45.5
20°-30°	1279.5	19.7
30°-40°	291.6	4.5
40°-50°	100.1	1.5
50°-60°	24.5	0.4
60°-70°	6.3	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°	6078.8	93.5
0°-40°	6370.4	98.0
0°-60°	6495.0	99.9
0°-90°	6502.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6502.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20907	20907	20907	20907	20907	
5°	20230	20210	20206	20248	20231	1840
15°	11085	10951	11025	10989	10970	2968
25°	2605	2704	2938	2635	2552	1247
35°	437	446	419	416	351	297
45°	115	143	143	143	116	82
55°	18	20	35	20	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°	20907.0	20907.0	20907.0	20907.0	20907.0
2.5°	20768.4	20754.1	20762.3	20772.5	20776.6
5°	20229.5	20210.0	20205.9	20248.0	20230.6
7.5°	19142.5	19114.8	19072.7	19168.2	19257.5
10°	17321.6	17290.8	17199.4	17244.6	17317.5
12.5°	14633.3	14533.7	14531.6	14675.3	14655.8
15°	11084.8	10951.3	11025.2	10989.3	10969.8
17.5°	7454.2	7402.9	7501.4	7471.6	7343.3
20°	5362.2	5375.6	5563.4	5469.0	5355.1
22.5°	3912.9	3961.1	4183.9	3940.6	3851.3
25°	2605.2	2703.7	2937.7	2634.9	2551.8
27.5°	1602.3	1647.5	1884.6	1581.8	1536.6
30°	996.7	974.1	1086.0	932.0	868.4
32.5°	653.9	625.1	661.0	593.3	542.0
35°	437.3	446.5	418.8	415.7	351.1
37.5°	273.0	314.1	277.1	295.6	225.8
40°	176.6	227.9	196.1	216.6	166.3
42.5°	144.7	175.5	161.2	171.4	147.8
45°	115.0	142.7	142.7	142.7	116.0
47.5°	63.6	95.5	122.1	97.5	67.7
50°	35.9	48.2	94.4	50.3	38.0
52.5°	24.6	27.7	64.7	28.7	25.7
55°	18.5	19.5	34.9	20.5	19.5
57.5°	14.4	15.4	18.5	15.4	14.4
60°	11.3	11.3	13.3	12.3	11.3
62.5°	8.2	8.2	9.2	8.2	8.2
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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