

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: P750518

Luminaire Tested: LD4D55D010-EU4DR7055659030-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P750518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D55D010-EU4DR7055659030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3213.4 lumens
Efficiency: N/A
Efficacy: 55.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

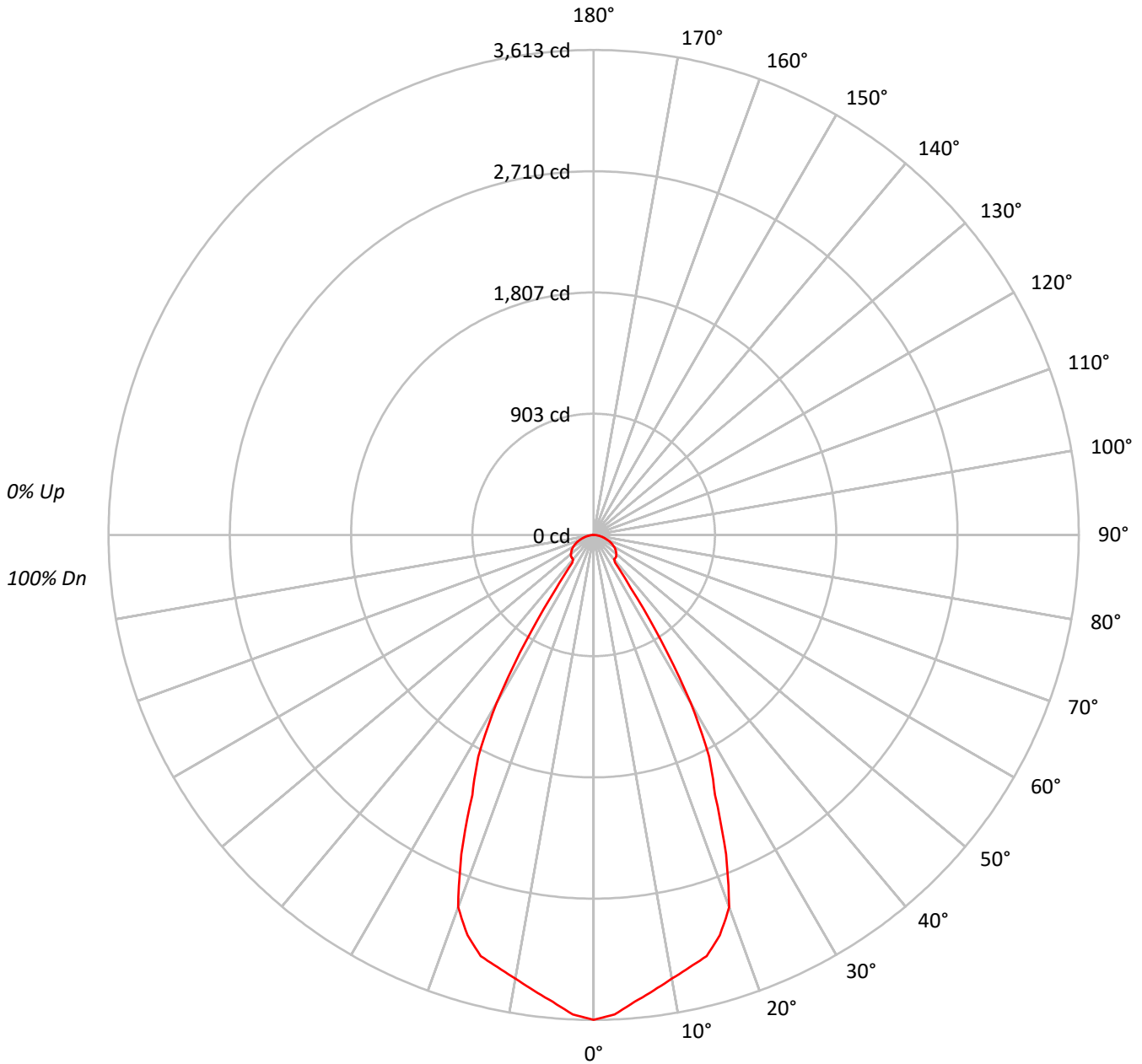
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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					100			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83					83			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76					76			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70					70			
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65					65			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61					61			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57					57			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53					53			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50					50			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48					48			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	394737
5°	383007
10°	372336
15°	367443
20°	343121
25°	257773
30°	182218
35°	64544
40°	33946
45°	36157
50°	37429
55°	38136
60°	38372
65°	37565
70°	35460
75°	32843
80°	29132
85°	23694

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 38393 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.4	10.3
10°-20°	903.5	28.1
20°-30°	995.1	31.0
30°-40°	380.2	11.8
40°-50°	179.5	5.6
50°-60°	178.5	5.6
60°-70°	142.9	4.4
70°-80°	82.1	2.6
80°-90°	22.3	0.7
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°	2227.9	69.3
0°-40°	2608.1	81.2
0°-60°	2966.1	92.3
0°-90°	3213.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3213.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3613	
5°	3492	329
15°	3248	903
25°	2138	995
35°	484	380
45°	234	180
55°	200	178
65°	145	143
75°	78	82
85°	19	22
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3612.8
2.5°	3575.0
5°	3492.1
7.5°	3422.9
10°	3356.0
12.5°	3299.3
15°	3248.4
17.5°	3125.4
20°	2951.0
22.5°	2574.6
25°	2138.2
27.5°	1861.3
30°	1444.3
32.5°	932.9
35°	483.9
37.5°	261.4
40°	238.0
42.5°	236.2
45°	234.0
47.5°	228.8
50°	220.2
52.5°	210.5
55°	200.2
57.5°	188.8
60°	175.6
62.5°	160.7
65°	145.3
67.5°	128.1
70°	111.0
72.5°	93.8
75°	77.8
77.5°	61.2
80°	46.3
82.5°	32.6
85°	18.9
87.5°	7.4
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)