

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: P750401

Luminaire Tested: LD4D55D010-EU4DR6055659050-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P750401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D55D010-EU4DR6055659050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4603.2 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

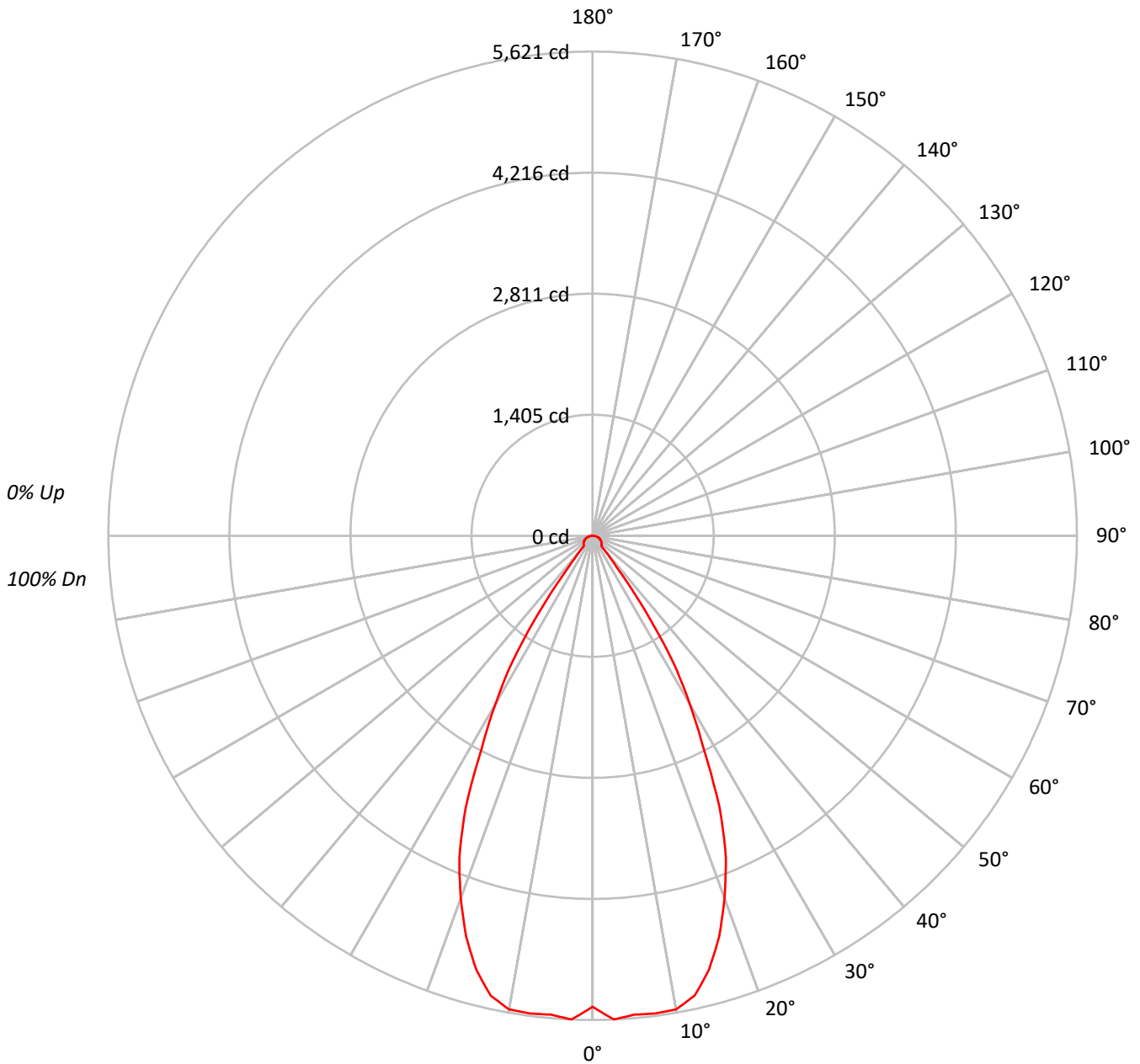
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			86
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80			80
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75			75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70			70
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66			66
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62			62
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59			59
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55			55
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53			53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	597318
5°	612004
10°	619391
15°	590053
20°	520251
25°	420788
30°	284625
35°	142626
40°	23135
45°	22652
50°	23100
55°	23449
60°	24103
65°	24638
70°	25237
75°	25540
80°	24602
85°	20559

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 25540 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.3	11.6
10°-20°	1442.9	31.3
20°-30°	1552.4	33.7
30°-40°	674.8	14.7
40°-50°	113.3	2.5
50°-60°	110.2	2.4
60°-70°	94.3	2.0
70°-80°	63.1	1.4
80°-90°	18.9	0.4
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°	3528.6	76.7
0°-40°	4203.4	91.3
0°-60°	4427.0	96.2
0°-90°	4603.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4603.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5467	
5°	5580	533
15°	5216	1443
25°	3490	1552
35°	1069	675
45°	147	113
55°	123	110
65°	95	94
75°	60	63
85°	16	19
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5466.9
2.5°	5620.6
5°	5580.0
7.5°	5592.8
10°	5582.8
12.5°	5467.6
15°	5216.4
17.5°	4879.2
20°	4474.4
22.5°	4041.1
25°	3490.4
27.5°	2791.8
30°	2256.0
32.5°	1738.8
35°	1069.3
37.5°	457.5
40°	162.2
42.5°	149.4
45°	146.6
47.5°	141.6
50°	135.9
52.5°	129.5
55°	123.1
57.5°	116.7
60°	110.3
62.5°	103.2
65°	95.3
67.5°	87.5
70°	79.0
72.5°	69.7
75°	60.5
77.5°	49.8
80°	39.1
82.5°	27.7
85°	16.4
87.5°	5.7
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)