

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: P750066

Luminaire Tested: LD4D55D010-EU4DR4055659035-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D55D010-EU4DR4055659035-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5476.2 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

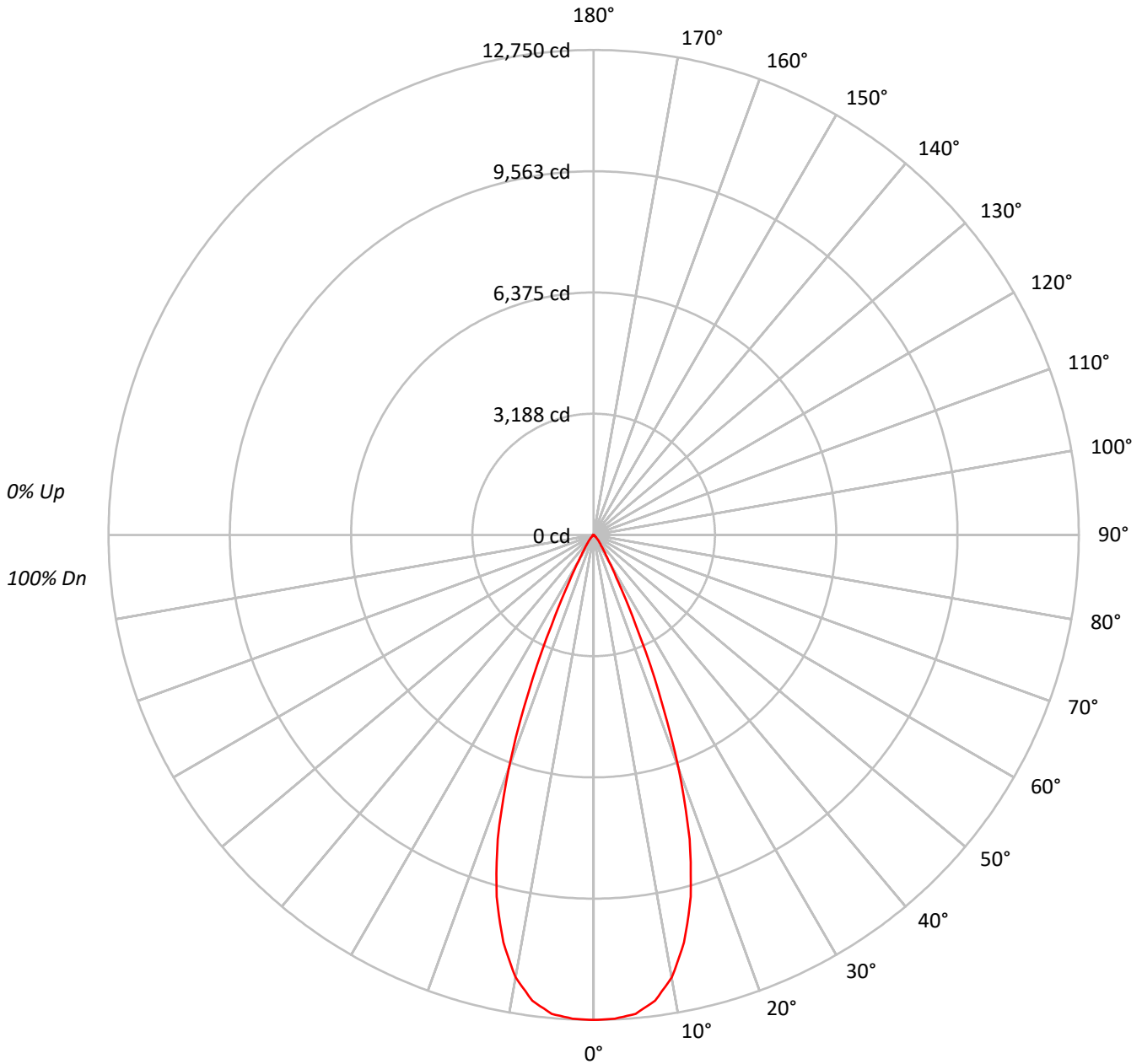
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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									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	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	100	99	98	97	96	95	93	92	91	89	88														
	1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84														
	2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92	91	90	89	88	87	86	85	84	83	82	81	80														
	3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88	87	86	85	84	83	82	81	80	79	78	77	76														
	4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84	83	82	81	80	79	78	77	76	75	74	73	72														
	5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81	80	79	78	77	76	75	74	73	72	71	70	69														
	6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77	76	75	74	73	72	71	70	69	68	67	66	65														
	7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	74	73	72	71	70	69	68	67	66	65	64	63	62														
	8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	71	70	69	68	67	66	65	64	63	62	61	60	59														
	9	86	79	74	71	85	78	74	71	77	73	71	77	73	70	76	72	70	68	67	66	65	64	63	62	61	60	59	58	57	56														
	10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	66	65	64	63	62	61	60	59	58	57	56	55	54														

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1393096
5°	1386320
10°	1310375
15°	1113991
20°	759262
25°	316797
30°	99606
35°	46297
40°	25602
45°	11743
50°	5694
55°	3124
60°	1617
65°	569
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11743 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1180.2	21.6
10°-20°	2644.1	48.3
20°-30°	1323.5	24.2
30°-40°	242.6	4.4
40°-50°	66.9	1.2
50°-60°	15.7	0.3
60°-70°	3.0	0.1
70°-80°	0.1	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°	5147.9	94.0
0°-40°	5390.5	98.4
0°-60°	5473.1	99.9
0°-90°	5476.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5476.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12750	
5°	12640	###
15°	9848	2644
25°	2628	1324
35°	347	243
45°	76	67
55°	16	16
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	12750.2
2.5°	12731.5
5°	12639.9
7.5°	12347.9
10°	11810.9
12.5°	10973.7
15°	9848.3
17.5°	8384.7
20°	6530.0
22.5°	4451.9
25°	2627.8
27.5°	1389.1
30°	789.5
32.5°	510.2
35°	347.1
37.5°	248.0
40°	179.5
42.5°	122.9
45°	76.0
47.5°	48.4
50°	33.5
52.5°	23.8
55°	16.4
57.5°	10.4
60°	7.4
62.5°	4.5
65°	2.2
67.5°	1.5
70°	0.7
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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)