

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: P755111

Luminaire Tested: LD4D85BD010-EU4DR6570959027-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P755111
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D85BD010-EU4DR6570959027-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6734.9 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

Input Watts (W): 87.7
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

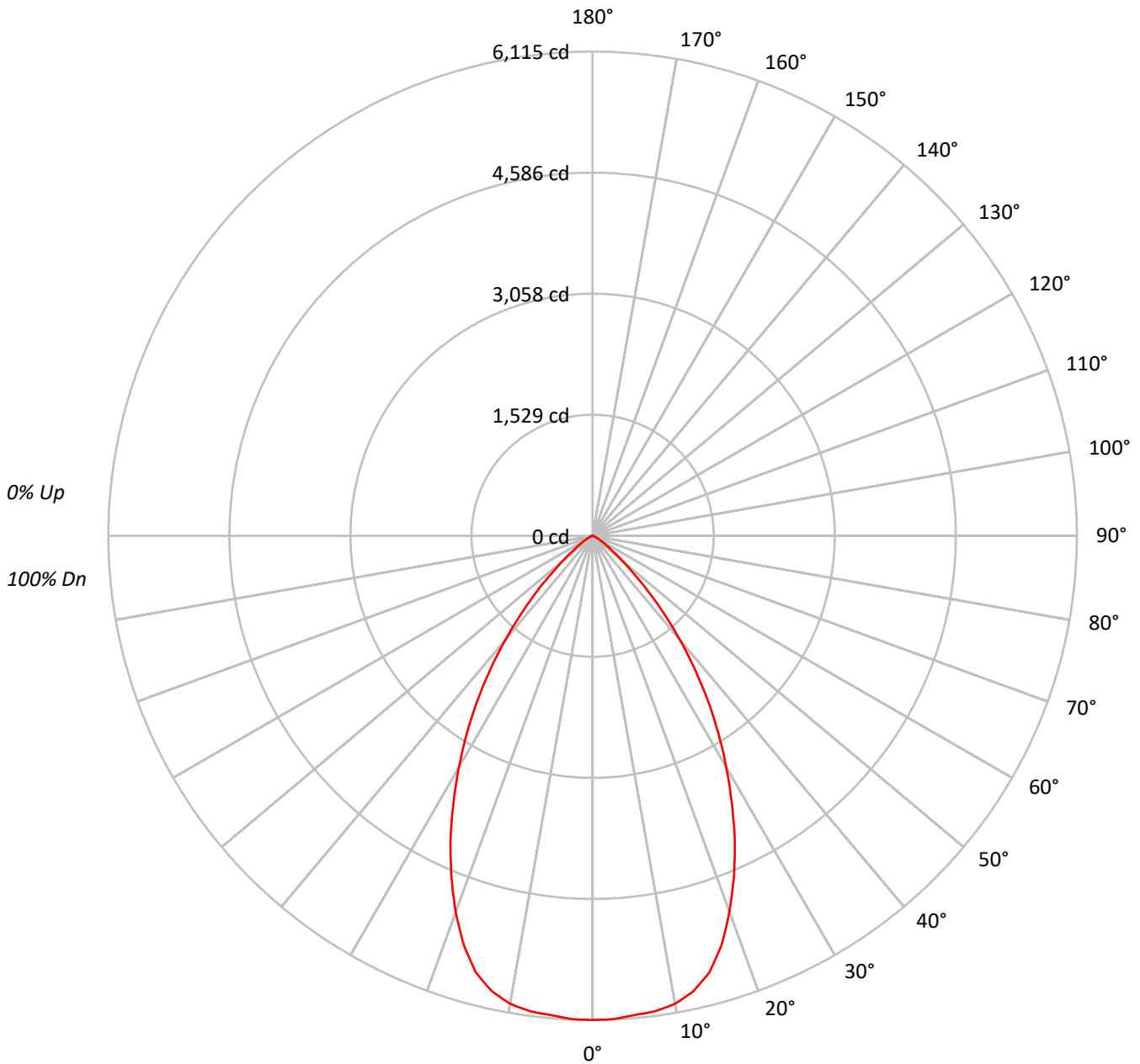


Downlight

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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				100															
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93				93															
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85				85															
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78				78															
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72				72															
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66				66															
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61				61															
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56				56															
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52				52															
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49				49															
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46				46															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	357140
5°	356241
10°	355936
15°	344966
20°	314048
25°	273670
30°	227620
35°	180355
40°	130174
45°	82240
50°	42868
55°	22788
60°	11961
65°	6578
70°	2766
75°	3046
80°	2119
85°	1809

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 82240 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.3	8.6
10°-20°	1583.6	23.5
20°-30°	1935.7	28.7
30°-40°	1570.5	23.3
40°-50°	782.6	11.6
50°-60°	218.3	3.2
60°-70°	49.6	0.7
70°-80°	12.9	0.2
80°-90°	3.3	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°	4097.5	60.8
0°-40°	5668.1	84.2
0°-60°	6669.0	99.0
0°-90°	6734.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6734.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6115	
5°	6076	578
15°	5705	1584
25°	4247	1936
35°	2530	1571
45°	996	783
55°	224	218
65°	48	50
75°	14	13
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6115.0
2.5°	6110.5
5°	6076.4
7.5°	6056.6
10°	6001.8
12.5°	5890.4
15°	5705.3
17.5°	5415.9
20°	5052.9
22.5°	4661.1
25°	4246.8
27.5°	3803.8
30°	3375.2
32.5°	2951.9
35°	2529.6
37.5°	2108.1
40°	1707.4
42.5°	1331.7
45°	995.7
47.5°	693.7
50°	471.8
52.5°	325.3
55°	223.8
57.5°	151.0
60°	102.4
62.5°	71.0
65°	47.6
67.5°	24.3
70°	16.2
72.5°	15.3
75°	13.5
77.5°	9.0
80°	6.3
82.5°	4.5
85°	2.7
87.5°	1.8
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)