

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: P745792

Luminaire Tested: LD4D30D010-EU4DR1515309040-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D30D010-EU4DR1515309040-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3243.2 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 29
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

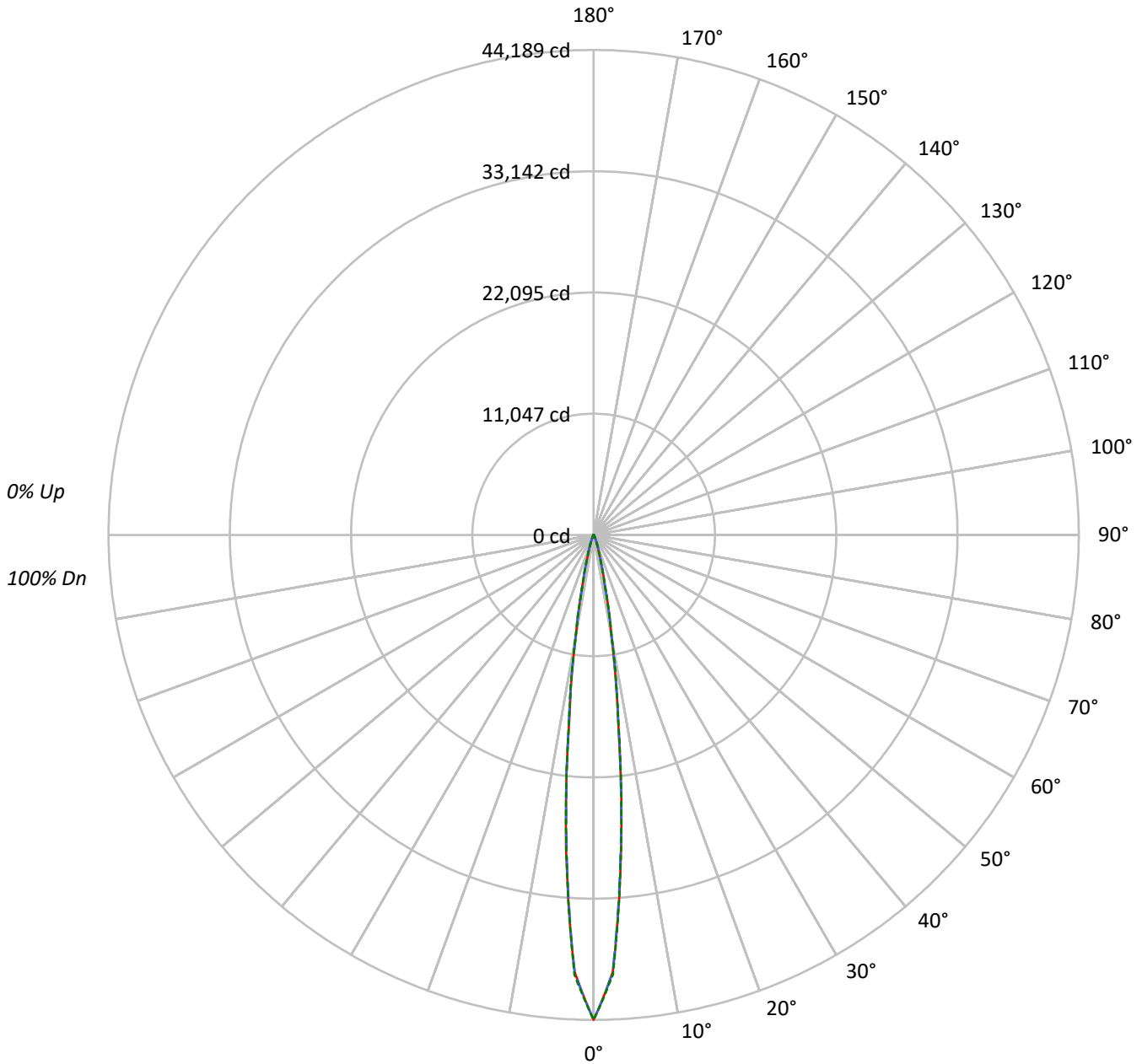


Downlight



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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4972099	4972099	4972099
5°	2921841	2884005	2906820
10°	872034	878146	891582
15°	216908	221138	214311
20°	64902	75154	66276
25°	22879	29143	23168
30°	8402	11067	8544
35°	4212	4757	4074
40°	2656	2926	2656
45°	1967	2093	1967
50°	1558	1558	1558
55°	1302	1302	1302
60°	1053	1053	1053
65°	799	799	799
70°	687	687	687
75°	423	423	567
80°	292	292	292
85°	158	158	158

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 2093 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2103.5	64.9
10°-20°	865.2	26.7
20°-30°	171.8	5.3
30°-40°	42.9	1.3
40°-50°	22.6	0.7
50°-60°	16.7	0.5
60°-70°	11.8	0.4
70°-80°	6.7	0.2
80°-90°	2.0	0.1
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°	3140.5	96.8
0°-40°	3183.4	98.2
0°-60°	3222.7	99.4
0°-90°	3243.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3243.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	44189	44189	44189	44189	44189	
5°	28750	28454	28378	28574	28602	2099
15°	2497	2544	2546	2501	2467	856
25°	294	333	374	331	297	154
35°	58	62	66	62	56	39
45°	28	28	30	28	28	22
55°	19	19	19	19	19	17
65°	11	11	11	11	11	12
75°	6	6	6	6	8	7
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	44188.6	44188.6	44188.6	44188.6	44188.6
2.5°	39859.9	39893.6	39906.7	39946.0	40091.9
5°	28750.1	28454.5	28377.8	28574.2	28602.3
7.5°	17030.4	17090.3	17309.2	17357.8	17182.0
10°	9345.8	9422.5	9411.3	9478.6	9555.3
12.5°	4779.5	4719.7	4701.0	4777.7	4671.0
15°	2497.3	2544.1	2546.0	2501.1	2467.4
17.5°	1343.1	1397.4	1487.2	1414.2	1302.0
20°	793.2	841.8	918.5	858.6	810.0
22.5°	490.1	529.4	583.6	536.9	497.6
25°	293.7	333.0	374.1	331.1	297.4
27.5°	174.0	207.6	233.8	205.8	172.1
30°	112.2	130.9	147.8	129.1	114.1
32.5°	78.6	86.1	93.5	86.1	78.6
35°	58.0	61.7	65.5	61.7	56.1
37.5°	44.9	48.6	50.5	46.8	43.0
40°	37.4	39.3	41.2	39.3	37.4
42.5°	31.8	33.7	33.7	33.7	31.8
45°	28.1	28.1	29.9	28.1	28.1
47.5°	24.3	24.3	26.2	24.3	24.3
50°	22.4	22.4	22.4	22.4	22.4
52.5°	20.6	20.6	20.6	20.6	20.6
55°	18.7	18.7	18.7	18.7	18.7
57.5°	16.8	16.8	16.8	16.8	16.8
60°	15.0	15.0	15.0	15.0	15.0
62.5°	13.1	13.1	13.1	13.1	13.1
65°	11.2	11.2	11.2	11.2	11.2
67.5°	11.2	11.2	11.2	11.2	11.2
70°	9.4	9.4	9.4	9.4	9.4
72.5°	7.5	7.5	7.5	7.5	7.5
75°	5.6	5.6	5.6	5.6	5.6
77.5°	5.6	5.6	5.6	5.6	5.6
80°	3.7	3.7	3.7	3.7	3.7
82.5°	3.7	3.7	3.7	3.7	3.7
85°	1.9	1.9	1.9	1.9	1.9
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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