

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: P745779

Luminaire Tested: LD4D30D010-EU4DR1515309035-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745779
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-EU4DR1515309035-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3156.0 lumens
Efficiency: N/A
Efficacy: 108.8 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



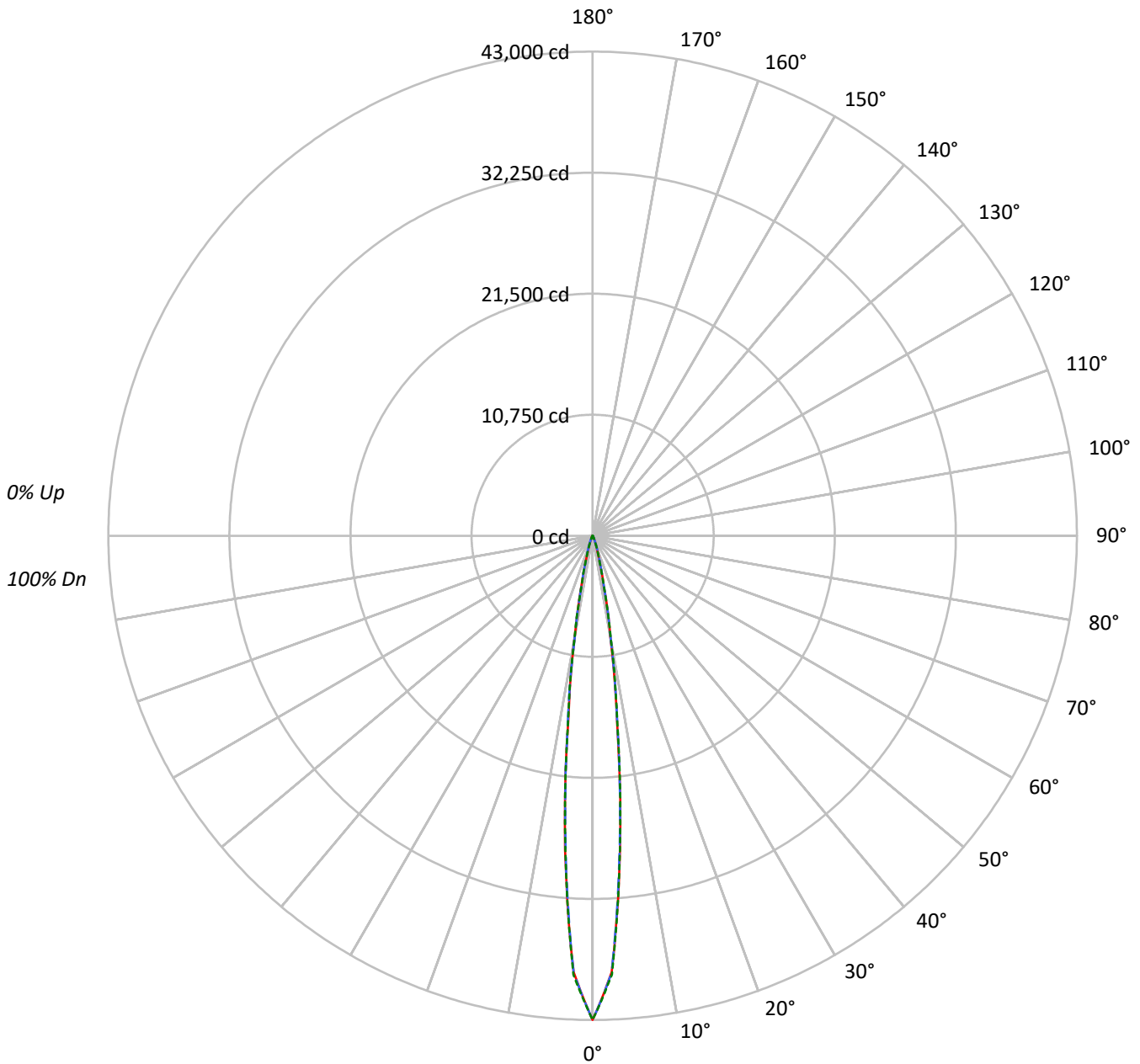
Downlight



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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°	4838324	4838324	4838324
5°	2843221	2806411	2828607
10°	848567	854511	867593
15°	211071	215188	208543
20°	63151	73133	64493
25°	22264	28364	22544
30°	8177	10768	8312
35°	4096	4626	3965
40°	2585	2841	2585
45°	1911	2037	1911
50°	1516	1516	1516
55°	1267	1267	1267
60°	1025	1025	1025
65°	778	778	778
70°	666	666	666
75°	416	416	552
80°	284	284	284
85°	149	149	149

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 2037 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2046.9	64.9
10°-20°	841.9	26.7
20°-30°	167.2	5.3
30°-40°	41.7	1.3
40°-50°	21.9	0.7
50°-60°	16.3	0.5
60°-70°	11.5	0.4
70°-80°	6.6	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°	3056.0	96.8
0°-40°	3097.8	98.2
0°-60°	3136.0	99.4
0°-90°	3156.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3156.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	43000	43000	43000	43000	43000	
5°	27976	27689	27614	27805	27833	2043
15°	2430	2476	2478	2434	2401	833
25°	286	324	364	322	289	150
35°	56	60	64	60	55	38
45°	27	27	29	27	27	21
55°	18	18	18	18	18	16
65°	11	11	11	11	11	11
75°	6	6	6	6	7	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°	42999.7	42999.7	42999.7	42999.7	42999.7
2.5°	38787.4	38820.2	38833.0	38871.2	39013.2
5°	27976.5	27688.9	27614.3	27805.4	27832.7
7.5°	16572.2	16630.5	16843.4	16890.8	16719.7
10°	9094.3	9169.0	9158.0	9223.6	9298.2
12.5°	4650.9	4592.7	4574.5	4649.1	4545.3
15°	2430.1	2475.6	2477.5	2433.8	2401.0
17.5°	1307.0	1359.8	1447.2	1376.2	1266.9
20°	771.8	819.1	893.8	835.5	788.2
22.5°	476.9	515.2	567.9	522.4	484.2
25°	285.8	324.0	364.1	322.2	289.4
27.5°	169.3	202.1	227.5	200.2	167.5
30°	109.2	127.4	143.8	125.6	111.0
32.5°	76.5	83.7	91.0	83.7	76.5
35°	56.4	60.1	63.7	60.1	54.6
37.5°	43.7	47.3	49.1	45.5	41.9
40°	36.4	38.2	40.0	38.2	36.4
42.5°	30.9	32.8	32.8	32.8	30.9
45°	27.3	27.3	29.1	27.3	27.3
47.5°	23.7	23.7	25.5	23.7	23.7
50°	21.8	21.8	21.8	21.8	21.8
52.5°	20.0	20.0	20.0	20.0	20.0
55°	18.2	18.2	18.2	18.2	18.2
57.5°	16.4	16.4	16.4	16.4	16.4
60°	14.6	14.6	14.6	14.6	14.6
62.5°	12.7	12.7	12.7	12.7	12.7
65°	10.9	10.9	10.9	10.9	10.9
67.5°	10.9	10.9	10.9	10.9	10.9
70°	9.1	9.1	9.1	9.1	9.1
72.5°	7.3	7.3	7.3	7.3	7.3
75°	5.5	5.5	5.5	5.5	7.3
77.5°	5.5	5.5	5.5	5.5	5.5
80°	3.6	3.6	3.6	3.6	3.6
82.5°	3.6	3.6	3.6	3.6	3.6
85°	1.8	1.8	1.8	1.8	1.8
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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