

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: P745752

Luminaire Tested: LD4D30D010-EU4DR1515309027-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745752
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-EU4DR1515309027-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2757.4 lumens
Efficiency: N/A
Efficacy: 95.1 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

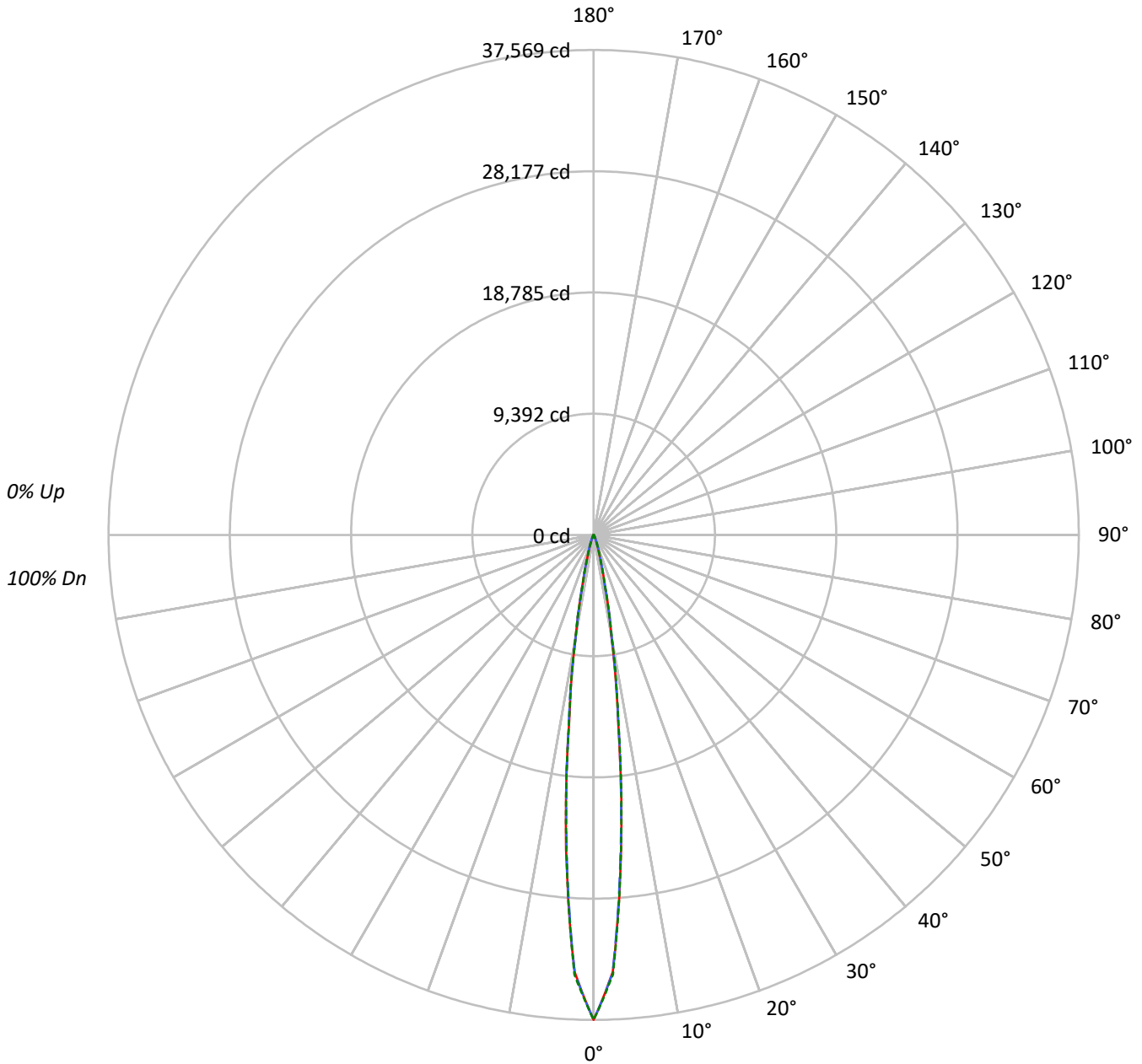


Downlight



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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°	4227273	4227273	4227273
5°	2484146	2451980	2471381
10°	741403	746591	758022
15°	184414	188010	182208
20°	55173	63895	56351
25°	19452	24780	19701
30°	7144	9405	7263
35°	3580	4045	3464
40°	2258	2486	2258
45°	1673	1778	1673
50°	1328	1328	1328
55°	1107	1107	1107
60°	892	892	892
65°	678	678	678
70°	585	585	585
75°	363	363	484
80°	252	252	252
85°	133	133	133

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1778 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1788.4	64.9
10°-20°	735.6	26.7
20°-30°	146.1	5.3
30°-40°	36.5	1.3
40°-50°	19.2	0.7
50°-60°	14.2	0.5
60°-70°	10.0	0.4
70°-80°	5.7	0.2
80°-90°	1.7	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°	2670.1	96.8
0°-40°	2706.5	98.2
0°-60°	2739.9	99.4
0°-90°	2757.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2757.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	37569	37569	37569	37569	37569	
5°	24443	24192	24127	24294	24318	1785
15°	2123	2163	2165	2126	2098	728
25°	250	283	318	282	253	131
35°	49	52	56	52	48	33
45°	24	24	25	24	24	19
55°	16	16	16	16	16	14
65°	10	10	10	10	10	10
75°	5	5	5	5	6	6
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°	37569.1	37569.1	37569.1	37569.1	37569.1
2.5°	33888.9	33917.5	33928.6	33962.0	34086.1
5°	24443.3	24192.0	24126.8	24293.8	24317.7
7.5°	14479.3	14530.2	14716.2	14757.6	14608.1
10°	7945.8	8011.0	8001.4	8058.7	8123.9
12.5°	4063.5	4012.7	3996.7	4062.0	3971.3
15°	2123.2	2163.0	2164.6	2126.4	2097.8
17.5°	1141.9	1188.1	1264.4	1202.4	1106.9
20°	674.3	715.7	780.9	730.0	688.7
22.5°	416.7	450.1	496.2	456.5	423.1
25°	249.7	283.1	318.1	281.5	252.9
27.5°	147.9	176.5	198.8	174.9	146.3
30°	95.4	111.3	125.6	109.7	97.0
32.5°	66.8	73.2	79.5	73.2	66.8
35°	49.3	52.5	55.7	52.5	47.7
37.5°	38.2	41.4	42.9	39.8	36.6
40°	31.8	33.4	35.0	33.4	31.8
42.5°	27.0	28.6	28.6	28.6	27.0
45°	23.9	23.9	25.4	23.9	23.9
47.5°	20.7	20.7	22.3	20.7	20.7
50°	19.1	19.1	19.1	19.1	19.1
52.5°	17.5	17.5	17.5	17.5	17.5
55°	15.9	15.9	15.9	15.9	15.9
57.5°	14.3	14.3	14.3	14.3	14.3
60°	12.7	12.7	12.7	12.7	12.7
62.5°	11.1	11.1	11.1	11.1	11.1
65°	9.5	9.5	9.5	9.5	9.5
67.5°	9.5	9.5	9.5	9.5	9.5
70°	8.0	8.0	8.0	8.0	8.0
72.5°	6.4	6.4	6.4	6.4	6.4
75°	4.8	4.8	4.8	4.8	4.8
77.5°	4.8	4.8	4.8	4.8	4.8
80°	3.2	3.2	3.2	3.2	3.2
82.5°	3.2	3.2	3.2	3.2	3.2
85°	1.6	1.6	1.6	1.6	1.6
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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