

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: P745739

Luminaire Tested: LD4D30D010-EU4DR1515309024-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745739
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-EU4DR1515309024-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2484.0 lumens
Efficiency: N/A
Efficacy: 85.7 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

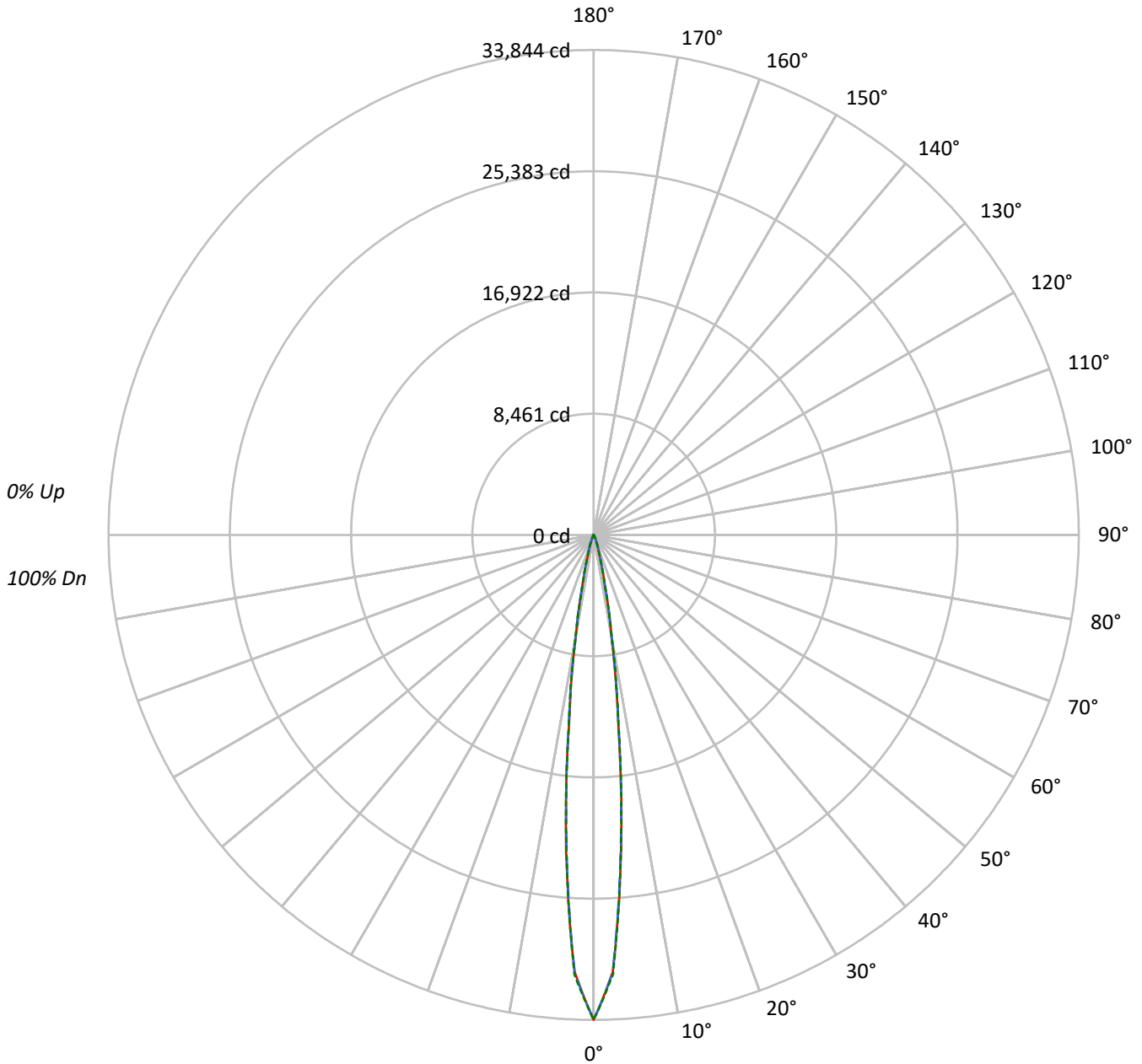


Downlight



TEST NUMBER: P745739
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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°	3808080	3808080	3808080
5°	2237807	2208833	2226303
10°	667886	672561	682853
15°	166131	169362	164142
20°	49707	57562	50763
25°	17520	22319	17746
30°	6440	8477	6545
35°	3224	3638	3123
40°	2038	2237	2038
45°	1505	1603	1505
50°	1196	1196	1196
55°	995	995	995
60°	807	807	807
65°	614	614	614
70°	527	527	527
75°	325	325	431
80°	229	229	229
85°	116	116	116

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1603 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1611.0	64.9
10°-20°	662.7	26.7
20°-30°	131.6	5.3
30°-40°	32.9	1.3
40°-50°	17.3	0.7
50°-60°	12.8	0.5
60°-70°	9.0	0.4
70°-80°	5.1	0.2
80°-90°	1.6	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°	2405.3	96.8
0°-40°	2438.2	98.2
0°-60°	2468.2	99.4
0°-90°	2484.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2484.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	33844	33844	33844	33844	33844	
5°	22019	21793	21734	21885	21906	1608
15°	1913	1948	1950	1916	1890	656
25°	225	255	286	254	228	118
35°	44	47	50	47	43	30
45°	22	22	23	22	22	17
55°	14	14	14	14	14	13
65°	9	9	9	9	9	9
75°	4	4	4	4	6	5
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	33843.6	33843.6	33843.6	33843.6	33843.6
2.5°	30528.3	30554.1	30564.2	30594.2	30706.0
5°	22019.4	21793.1	21734.3	21884.8	21906.2
7.5°	13043.5	13089.3	13256.9	13294.2	13159.5
10°	7157.9	7216.6	7208.0	7259.6	7318.3
12.5°	3660.6	3614.7	3600.4	3659.2	3577.5
15°	1912.7	1948.5	1949.9	1915.5	1889.8
17.5°	1028.7	1070.2	1139.0	1083.1	997.2
20°	607.5	644.7	703.5	657.6	620.4
22.5°	375.4	405.5	447.0	411.2	381.1
25°	224.9	255.0	286.5	253.6	227.8
27.5°	133.2	159.0	179.1	157.6	131.8
30°	86.0	100.3	113.2	98.9	87.4
32.5°	60.2	65.9	71.6	65.9	60.2
35°	44.4	47.3	50.1	47.3	43.0
37.5°	34.4	37.3	38.7	35.8	33.0
40°	28.7	30.1	31.5	30.1	28.7
42.5°	24.4	25.8	25.8	25.8	24.4
45°	21.5	21.5	22.9	21.5	21.5
47.5°	18.6	18.6	20.1	18.6	18.6
50°	17.2	17.2	17.2	17.2	17.2
52.5°	15.8	15.8	15.8	15.8	15.8
55°	14.3	14.3	14.3	14.3	14.3
57.5°	12.9	12.9	12.9	12.9	12.9
60°	11.5	11.5	11.5	11.5	11.5
62.5°	10.0	10.0	10.0	10.0	10.0
65°	8.6	8.6	8.6	8.6	8.6
67.5°	8.6	8.6	8.6	8.6	8.6
70°	7.2	7.2	7.2	7.2	7.2
72.5°	5.7	5.7	5.7	5.7	5.7
75°	4.3	4.3	4.3	4.3	5.7
77.5°	4.3	4.3	4.3	4.3	4.3
80°	2.9	2.9	2.9	2.9	2.9
82.5°	2.9	2.9	2.9	2.9	2.9
85°	1.4	1.4	1.4	1.4	1.4
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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