

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: P745787

Luminaire Tested: LD4D30D010-EU4DR1515309040-4LBDP1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745787
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-EU4DR1515309040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-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: 2934.4 lumens
Efficiency: N/A
Efficacy: 101.2 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



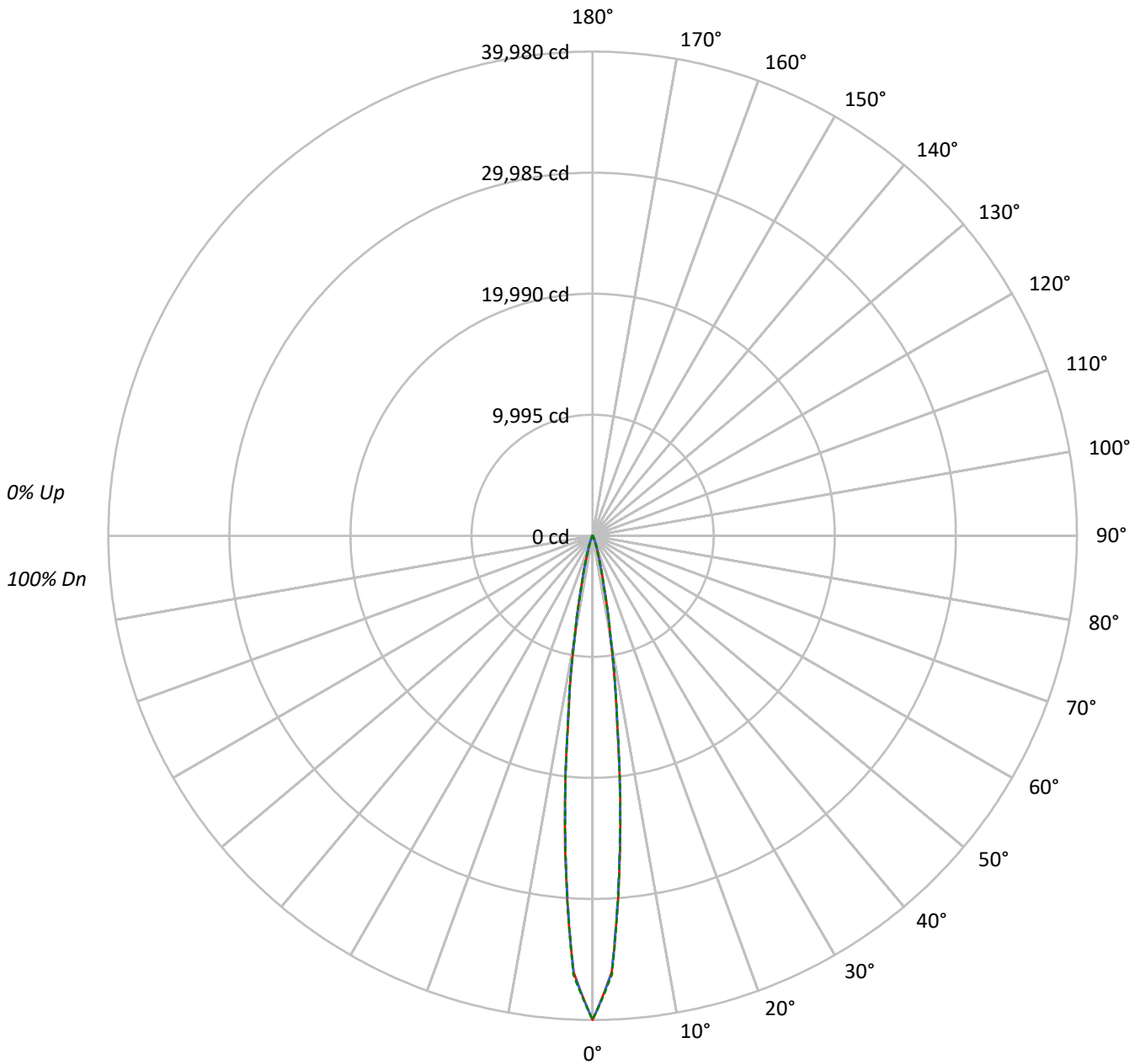
Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4498570	4498570	4498570
5°	2643571	2609342	2629983
10°	788981	794514	806672
15°	196253	200075	193899
20°	58716	67995	59968
25°	20698	26369	20963
30°	7600	10012	7728
35°	3813	4299	3689
40°	2400	2642	2400
45°	1778	1897	1778
50°	1412	1412	1412
55°	1176	1176	1176
60°	948	948	948
65°	728	728	728
70°	622	622	622
75°	385	385	514
80°	268	268	268
85°	141	141	141

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1897 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1903.1	64.9
10°-20°	782.8	26.7
20°-30°	155.5	5.3
30°-40°	38.8	1.3
40°-50°	20.4	0.7
50°-60°	15.1	0.5
60°-70°	10.7	0.4
70°-80°	6.1	0.2
80°-90°	1.8	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°	2841.4	96.8
0°-40°	2880.2	98.2
0°-60°	2915.8	99.4
0°-90°	2934.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2934.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	39980	39980	39980	39980	39980	
5°	26012	25745	25675	25853	25878	1900
15°	2260	2302	2304	2263	2232	775
25°	266	301	338	300	269	140
35°	52	56	59	56	51	36
45°	25	25	27	25	25	20
55°	17	17	17	17	17	15
65°	10	10	10	10	10	11
75°	5	5	5	5	7	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°	39980.2	39980.2	39980.2	39980.2	39980.2
2.5°	36063.7	36094.2	36106.0	36141.6	36273.6
5°	26012.0	25744.6	25675.2	25852.9	25878.3
7.5°	15408.5	15462.7	15660.7	15704.7	15545.6
10°	8455.7	8525.1	8515.0	8575.9	8645.3
12.5°	4324.3	4270.2	4253.2	4322.6	4226.2
15°	2259.5	2301.8	2303.5	2262.9	2232.4
17.5°	1215.2	1264.3	1345.5	1279.5	1178.0
20°	717.6	761.6	831.0	776.9	732.9
22.5°	443.4	479.0	528.1	485.7	450.2
25°	265.7	301.3	338.5	299.6	269.1
27.5°	157.4	187.9	211.6	186.2	155.7
30°	101.5	118.5	133.7	116.8	103.2
32.5°	71.1	77.9	84.6	77.9	71.1
35°	52.5	55.9	59.2	55.9	50.8
37.5°	40.6	44.0	45.7	42.3	38.9
40°	33.8	35.5	37.2	35.5	33.8
42.5°	28.8	30.5	30.5	30.5	28.8
45°	25.4	25.4	27.1	25.4	25.4
47.5°	22.0	22.0	23.7	22.0	22.0
50°	20.3	20.3	20.3	20.3	20.3
52.5°	18.6	18.6	18.6	18.6	18.6
55°	16.9	16.9	16.9	16.9	16.9
57.5°	15.2	15.2	15.2	15.2	15.2
60°	13.5	13.5	13.5	13.5	13.5
62.5°	11.8	11.8	11.8	11.8	11.8
65°	10.2	10.2	10.2	10.2	10.2
67.5°	10.2	10.2	10.2	10.2	10.2
70°	8.5	8.5	8.5	8.5	8.5
72.5°	6.8	6.8	6.8	6.8	6.8
75°	5.1	5.1	5.1	5.1	6.8
77.5°	5.1	5.1	5.1	5.1	5.1
80°	3.4	3.4	3.4	3.4	3.4
82.5°	3.4	3.4	3.4	3.4	3.4
85°	1.7	1.7	1.7	1.7	1.7
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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