

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: P745780

Luminaire Tested: LD4D30D010-EU4DR1515309035-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745780
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-EU4DR1515309035-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2855.4 lumens
Efficiency: N/A
Efficacy: 98.5 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

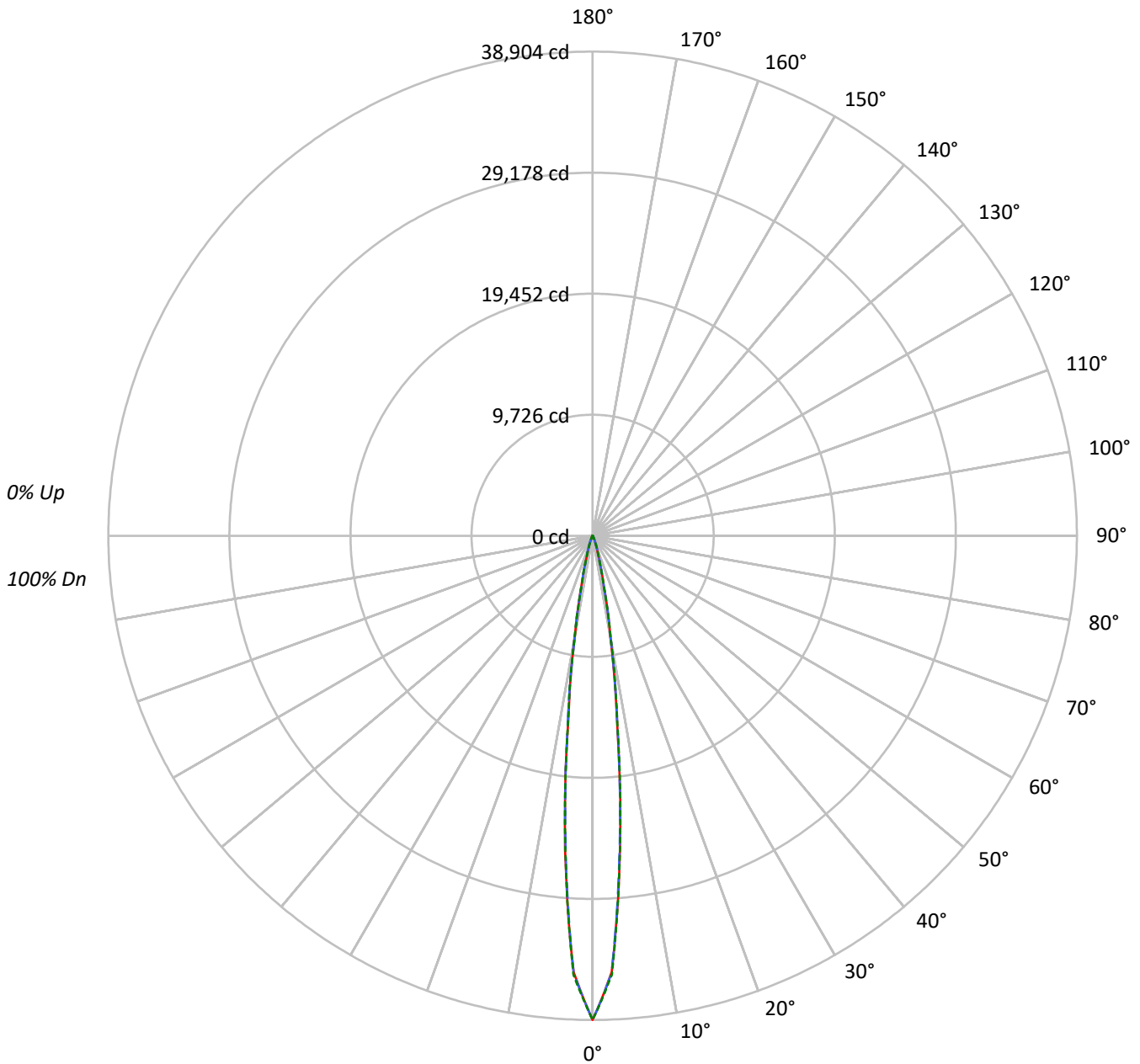


Downlight



TEST NUMBER: P745780
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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°	4377510	4377510	4377510
5°	2572431	2539127	2559209
10°	767754	773128	784959
15°	190972	194690	188679
20°	57137	66170	58348
25°	20145	25660	20402
30°	7398	9742	7526
35°	3711	4183	3587
40°	2336	2571	2336
45°	1729	1848	1729
50°	1377	1377	1377
55°	1148	1148	1148
60°	927	927	927
65°	707	707	707
70°	600	600	600
75°	370	370	499
80°	260	260	260
85°	133	133	133

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1848 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1851.9	64.9
10°-20°	761.8	26.7
20°-30°	151.3	5.3
30°-40°	37.8	1.3
40°-50°	19.9	0.7
50°-60°	14.7	0.5
60°-70°	10.4	0.4
70°-80°	5.9	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°	2765.0	96.8
0°-40°	2802.7	98.2
0°-60°	2837.3	99.4
0°-90°	2855.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2855.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	38904	38904	38904	38904	38904	
5°	25312	25052	24984	25157	25182	1848
15°	2199	2240	2242	2202	2172	754
25°	259	293	329	292	262	136
35°	51	54	58	54	49	35
45°	25	25	26	25	25	19
55°	16	16	16	16	16	15
65°	10	10	10	10	10	10
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°	38904.3	38904.3	38904.3	38904.3	38904.3
2.5°	35093.2	35122.9	35134.4	35169.0	35297.5
5°	25312.0	25051.8	24984.3	25157.2	25181.9
7.5°	14993.8	15046.5	15239.2	15282.1	15127.2
10°	8228.2	8295.7	8285.8	8345.1	8412.6
12.5°	4208.0	4155.3	4138.8	4206.3	4112.4
15°	2198.7	2239.9	2241.5	2202.0	2172.3
17.5°	1182.5	1230.3	1309.3	1245.1	1146.3
20°	698.3	741.1	808.7	756.0	713.1
22.5°	431.5	466.1	513.8	472.7	438.1
25°	258.6	293.2	329.4	291.5	261.9
27.5°	153.2	182.8	205.9	181.2	151.5
30°	98.8	115.3	130.1	113.6	100.5
32.5°	69.2	75.8	82.3	75.8	69.2
35°	51.1	54.3	57.6	54.3	49.4
37.5°	39.5	42.8	44.5	41.2	37.9
40°	32.9	34.6	36.2	34.6	32.9
42.5°	28.0	29.6	29.6	29.6	28.0
45°	24.7	24.7	26.4	24.7	24.7
47.5°	21.4	21.4	23.1	21.4	21.4
50°	19.8	19.8	19.8	19.8	19.8
52.5°	18.1	18.1	18.1	18.1	18.1
55°	16.5	16.5	16.5	16.5	16.5
57.5°	14.8	14.8	14.8	14.8	14.8
60°	13.2	13.2	13.2	13.2	13.2
62.5°	11.5	11.5	11.5	11.5	11.5
65°	9.9	9.9	9.9	9.9	9.9
67.5°	9.9	9.9	9.9	9.9	9.9
70°	8.2	8.2	8.2	8.2	8.2
72.5°	6.6	6.6	6.6	6.6	6.6
75°	4.9	4.9	4.9	4.9	6.6
77.5°	4.9	4.9	4.9	4.9	4.9
80°	3.3	3.3	3.3	3.3	3.3
82.5°	3.3	3.3	3.3	3.3	3.3
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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