

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: P745761

Luminaire Tested: LD4D30D010-EU4DR1515309030-4LBDP1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745761
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-EU4DR1515309030-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2704.8 lumens
Efficiency: N/A
Efficacy: 93.3 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 (Ain): 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

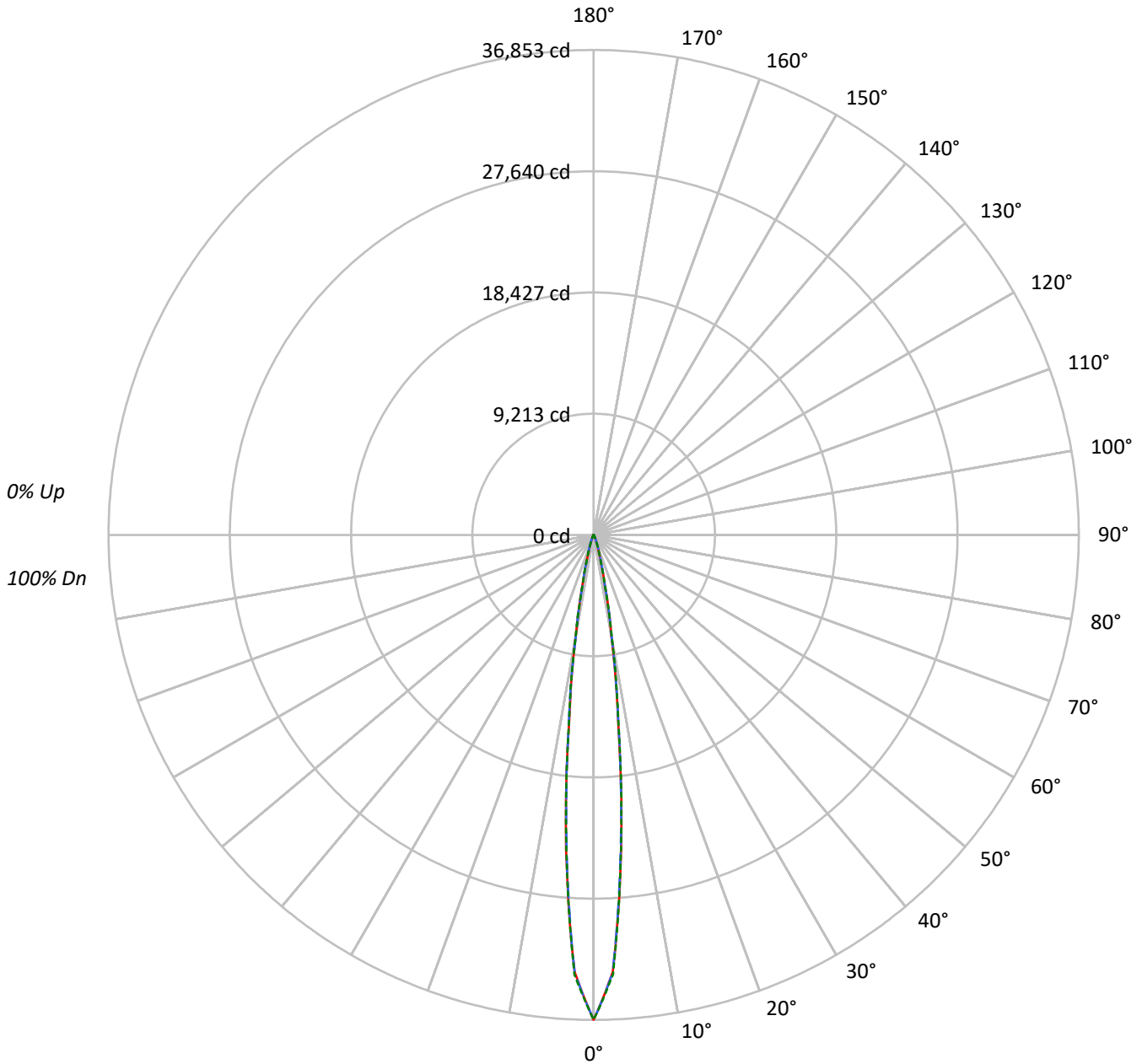


Downlight



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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					70					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°	4146664	4146664	4146664
5°	2436777	2405221	2424246
10°	727267	732362	743568
15°	180897	184423	178734
20°	54126	62676	55271
25°	19078	24305	19327
30°	7009	9225	7129
35°	3515	3965	3399
40°	2216	2436	2216
45°	1638	1750	1638
50°	1300	1300	1300
55°	1086	1086	1086
60°	878	878	878
65°	671	671	671
70°	570	570	570
75°	355	355	469
80°	244	244	244
85°	133	133	133

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1750 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1754.3	64.9
10°-20°	721.6	26.7
20°-30°	143.3	5.3
30°-40°	35.8	1.3
40°-50°	18.8	0.7
50°-60°	13.9	0.5
60°-70°	9.9	0.4
70°-80°	5.6	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°	2619.2	96.8
0°-40°	2654.9	98.2
0°-60°	2687.7	99.4
0°-90°	2704.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2704.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	36853	36853	36853	36853	36853	
5°	23977	23731	23667	23830	23854	1751
15°	2083	2122	2123	2086	2058	714
25°	245	278	312	276	248	129
35°	48	52	55	52	47	33
45°	23	23	25	23	23	18
55°	16	16	16	16	16	14
65°	9	9	9	9	9	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°	36852.7	36852.7	36852.7	36852.7	36852.7
2.5°	33242.6	33270.7	33281.6	33314.4	33436.1
5°	23977.2	23730.7	23666.7	23830.5	23853.9
7.5°	14203.1	14253.1	14435.6	14476.2	14329.5
10°	7794.3	7858.2	7848.9	7905.0	7969.0
12.5°	3986.1	3936.1	3920.5	3984.5	3895.6
15°	2082.7	2121.7	2123.3	2085.9	2057.8
17.5°	1120.2	1165.4	1240.3	1179.4	1085.8
20°	661.5	702.0	766.0	716.1	675.5
22.5°	408.7	441.5	486.8	447.7	415.0
25°	244.9	277.7	312.0	276.1	248.1
27.5°	145.1	173.2	195.0	171.6	143.5
30°	93.6	109.2	123.2	107.6	95.2
32.5°	65.5	71.8	78.0	71.8	65.5
35°	48.4	51.5	54.6	51.5	46.8
37.5°	37.4	40.6	42.1	39.0	35.9
40°	31.2	32.8	34.3	32.8	31.2
42.5°	26.5	28.1	28.1	28.1	26.5
45°	23.4	23.4	25.0	23.4	23.4
47.5°	20.3	20.3	21.8	20.3	20.3
50°	18.7	18.7	18.7	18.7	18.7
52.5°	17.2	17.2	17.2	17.2	17.2
55°	15.6	15.6	15.6	15.6	15.6
57.5°	14.0	14.0	14.0	14.0	14.0
60°	12.5	12.5	12.5	12.5	12.5
62.5°	10.9	10.9	10.9	10.9	10.9
65°	9.4	9.4	9.4	9.4	9.4
67.5°	9.4	9.4	9.4	9.4	9.4
70°	7.8	7.8	7.8	7.8	7.8
72.5°	6.2	6.2	6.2	6.2	6.2
75°	4.7	4.7	4.7	4.7	6.2
77.5°	4.7	4.7	4.7	4.7	4.7
80°	3.1	3.1	3.1	3.1	3.1
82.5°	3.1	3.1	3.1	3.1	3.1
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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