Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P745736

Luminaire Tested: LD4D30D010-EU4DR1515309024-4LBDP1LI

Issue Date: 2/2/2024

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P745736
	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-EU4DR1515309024-4LBDP1LI
Description:	4 INCH ROUND DEEP 45° CUTOFF 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:	2477.8 lumens
Efficiency:	N/A
Efficacy:	85.4 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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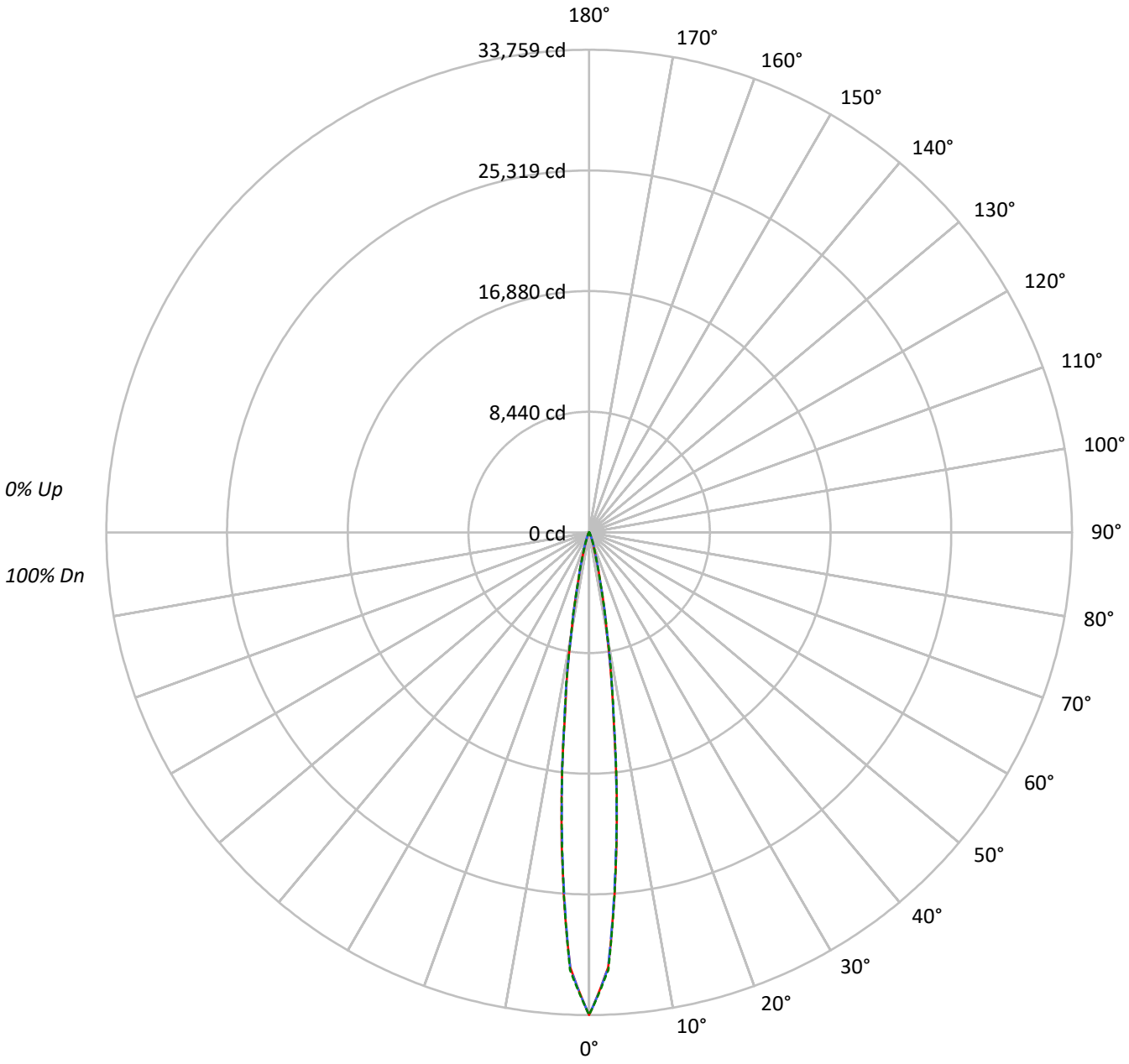
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			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	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°	3798561	3798561	3798561
5°	2232218	2203315	2220744
10°	666216	670882	681145
15°	165714	168945	163725
20°	49585	57415	50632
25°	17481	22264	17699
30°	6417	8454	6530
35°	3217	3631	3115
40°	2031	2230	2031
45°	1498	1603	1498
50°	1189	1189	1189
55°	995	995	995
60°	800	800	800
65°	614	614	614
70°	519	519	519
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°	1607.0	64.9
10°-20°	661.0	26.7
20°-30°	131.3	5.3
30°-40°	32.8	1.3
40°-50°	17.2	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°	2399.3	96.8
0°-40°	2432.1	98.2
0°-60°	2462.0	99.4
0°-90°	2477.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2477.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	33759	33759	33759	33759	33759	
5°	21964	21739	21680	21830	21852	1604
15°	1908	1944	1945	1911	1885	654
25°	224	254	286	253	227	118
35°	44	47	50	47	43	30
45°	21	21	23	21	21	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°	*33759.0*	*33759.0*	*33759.0*	*33759.0*	*33759.0*
2.5°	*30452.0*	30477.7	30487.7	30517.8	30629.2
5°	*21964.4*	21738.6	21680.0	21830.0	21851.5
7.5°	*13010.8*	13056.6	13223.8	13260.9	13126.6
10°	*7140.0*	7198.6	7190.0	7241.4	7300.0
12.5°	*3651.4*	3605.7	3591.4	3650.0	3568.6
15°	*1907.9*	1943.6	1945.1	1910.8	1885.0
17.5°	*1026.1*	1067.6	1136.2	1080.4	994.7
20°	*606.0*	643.1	701.7	656.0	618.8
22.5°	*374.4*	404.4	445.9	410.2	380.2
25°	*224.4*	254.4	285.8	253.0	227.2
27.5°	*132.9*	158.6	178.6	157.2	131.5
30°	*85.7*	100.0	112.9	98.6	87.2
32.5°	*60.0*	65.7	71.5	65.7	60.0
35°	*44.3*	47.2	50.0	47.2	42.9
37.5°	*34.3*	37.2	38.6	35.7	32.9
40°	*28.6*	30.0	31.4	30.0	28.6
42.5°	*24.3*	25.7	25.7	25.7	24.3
45°	*21.4*	21.4	22.9	21.4	21.4
47.5°	*18.6*	18.6	20.0	18.6	18.6
50°	*17.1*	17.1	17.1	17.1	17.1
52.5°	*15.7*	15.7	15.7	15.7	15.7
55°	*14.3*	14.3	14.3	14.3	14.3
57.5°	*12.9*	12.9	12.9	12.9	12.9
60°	*11.4*	11.4	11.4	11.4	11.4
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°	*7.1*	7.1	7.1	7.1	7.1
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

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Report Generated By 670245859 / DESKTOP-T8S5UU9

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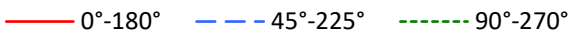

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(END OF REPORT)