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: P745765

Luminaire Tested: LD4D30D010-EU4DR1515309030-4LBS1H

Issue Date: 2/2/2024

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P745765
	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-EU4DR1515309030-4LBS1H
Description:	4 INCH ROUND SHALLOW 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:	2847.2 lumens
Efficiency:	N/A
Efficacy:	98.2 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 (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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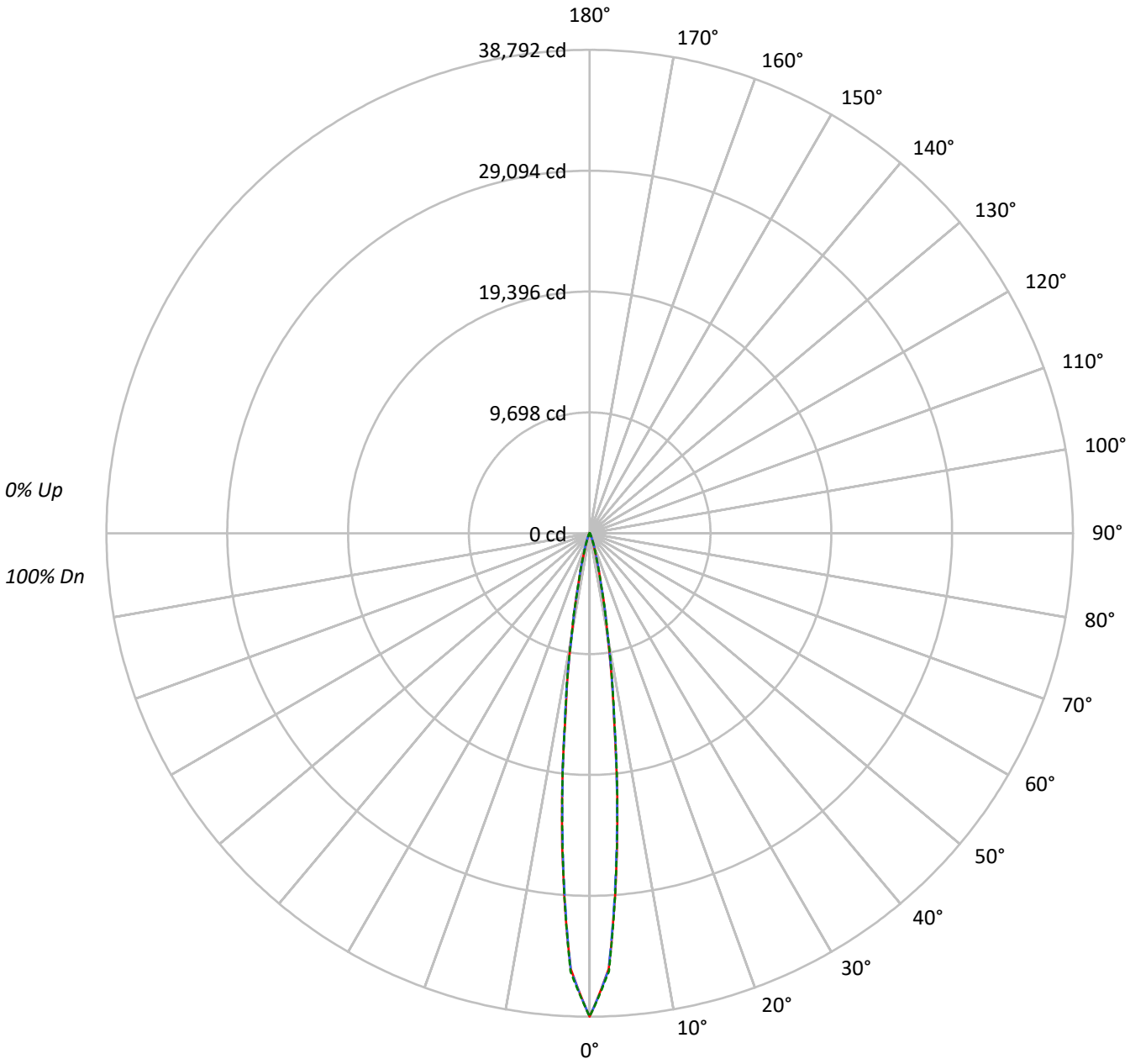
Luminous Intensity Polar Plot



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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°	4364908	4364908	4364908
5°	2565022	2531810	2551841
10°	765542	770907	782701
15°	190425	194125	188141
20°	56973	65974	58184
25°	20083	25583	20340
30°	7376	9712	7503
35°	3696	4176	3580
40°	2329	2564	2329
45°	1722	1841	1722
50°	1370	1370	1370
55°	1142	1142	1142
60°	920	920	920
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: 1841 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1846.6	64.9
10°-20°	759.6	26.7
20°-30°	150.9	5.3
30°-40°	37.7	1.3
40°-50°	19.8	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°	2757.0	96.8
0°-40°	2794.7	98.2
0°-60°	2829.1	99.4
0°-90°	2847.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2847.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	38792	38792	38792	38792	38792	
5°	25239	24980	24912	25085	25109	1843
15°	2192	2233	2235	2196	2166	752
25°	258	292	328	291	261	135
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°	*38792.3*	*38792.3*	*38792.3*	*38792.3*	*38792.3*
2.5°	*34992.2*	35021.8	35033.3	35067.7	35195.8
5°	*25239.1*	24979.7	24912.3	25084.8	25109.4
7.5°	*14950.7*	15003.2	15195.4	15238.1	15083.7
10°	*8204.5*	8271.8	8262.0	8321.1	8388.4
12.5°	*4195.8*	4143.3	4126.9	4194.2	4100.6
15°	*2192.4*	2233.4	2235.0	2195.6	2166.1
17.5°	*1179.1*	1226.7	1305.6	1241.5	1143.0
20°	*696.3*	739.0	806.3	753.8	711.1
22.5°	*430.3*	464.7	512.4	471.3	436.8
25°	*257.8*	292.3	328.4	290.7	261.1
27.5°	*152.7*	182.3	205.3	180.6	151.1
30°	*98.5*	115.0	129.7	113.3	100.2
32.5°	*69.0*	75.5	82.1	75.5	69.0
35°	*50.9*	54.2	57.5	54.2	49.3
37.5°	*39.4*	42.7	44.3	41.1	37.8
40°	*32.8*	34.5	36.1	34.5	32.8
42.5°	*27.9*	29.6	29.6	29.6	27.9
45°	*24.6*	24.6	26.3	24.6	24.6
47.5°	*21.3*	21.3	23.0	21.3	21.3
50°	*19.7*	19.7	19.7	19.7	19.7
52.5°	*18.1*	18.1	18.1	18.1	18.1
55°	*16.4*	16.4	16.4	16.4	16.4
57.5°	*14.8*	14.8	14.8	14.8	14.8
60°	*13.1*	13.1	13.1	13.1	13.1
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

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Report Generated By 670245859 / DESKTOP-T8S5UU9

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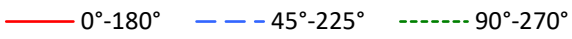

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(END OF REPORT)