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: P746540

Luminaire Tested: LD4D30D010-EU4DR6520359030-4LBDP1B

Issue Date: 2/5/2024

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P746540
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	2/5/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	PORTFOLIO
Catalog Number:	LD4D30D010-EU4DR6520359030-4LBDP1B
Description:	4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source:	(1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1748.1 lumens
Efficiency:	N/A
Efficacy:	60.3 lumens/watt
Spacing Criteria (0/90/45):	0.98 / 0.98 / 0.92
Luminous Opening:	Circular (Dia: 0.35' x H: 0')
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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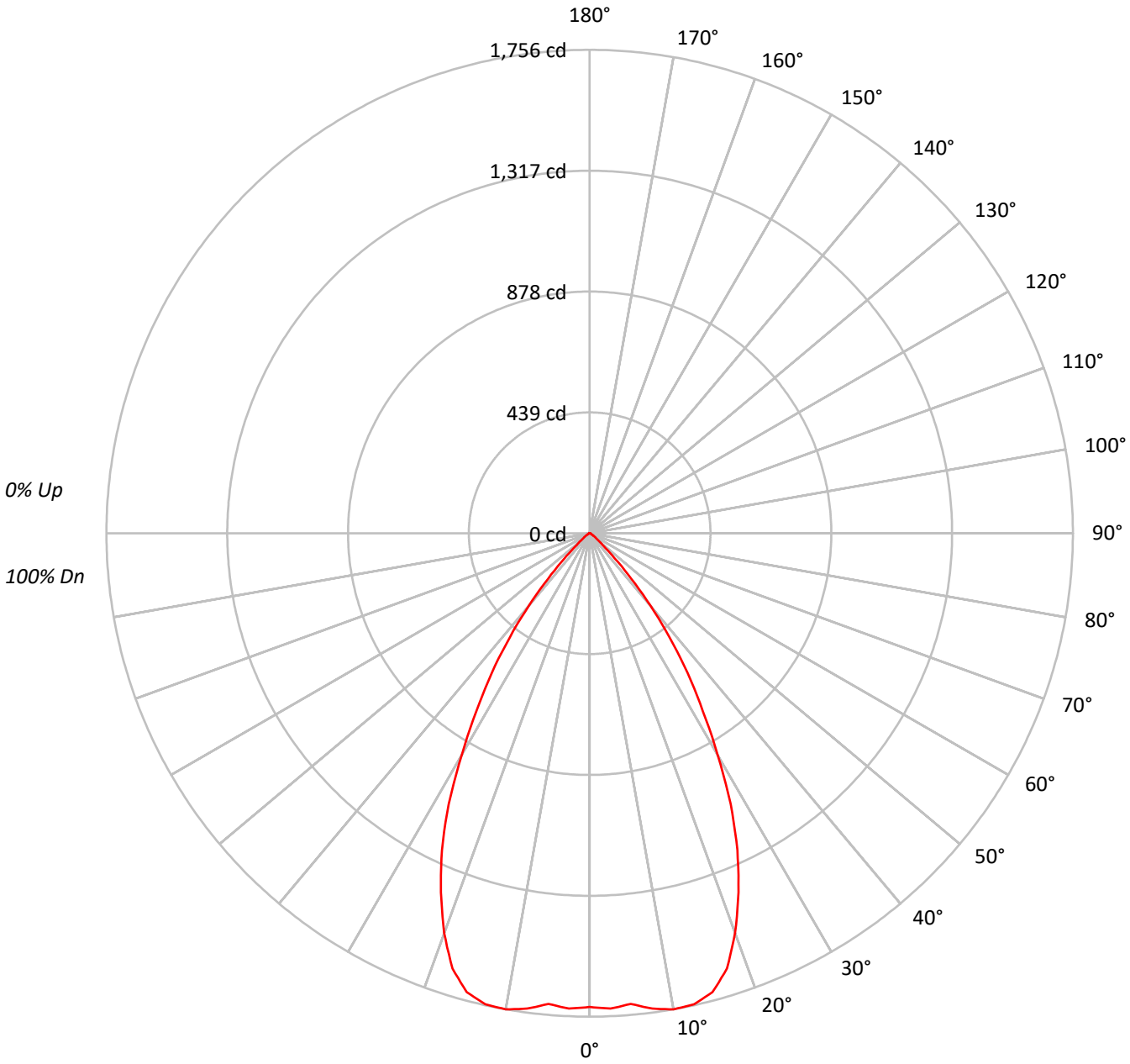
Luminous Intensity Polar Plot



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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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	188049
5°	188208
10°	194833
15°	195157
20°	179665
25°	153082
30°	117193
35°	82791
40°	48879
45°	19840
50°	7190
55°	4000
60°	2294
65°	1267
70°	1342
75°	1055
80°	1070
85°	878

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 19840 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.7	9.5
10°-20°	478.0	27.3
20°-30°	573.6	32.8
30°-40°	385.5	22.0
40°-50°	115.4	6.6
50°-60°	20.4	1.2
60°-70°	5.8	0.3
70°-80°	2.9	0.2
80°-90°	0.9	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°	1217.3	69.6
0°-40°	1602.8	91.7
0°-60°	1738.5	99.5
0°-90°	1748.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1748.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1721	
5°	1716	166
15°	1725	478
25°	1270	574
35°	621	385
45°	128	115
55°	21	20
65°	5	6
75°	2	3
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1721.1
2.5°	1728.4
5°	1716.0
7.5°	1741.9
10°	1756.1
12.5°	1752.7
15°	1725.3
17.5°	1658.2
20°	1545.2
22.5°	1412.2
25°	1269.8
27.5°	1109.2
30°	928.9
32.5°	765.5
35°	620.7
37.5°	477.7
40°	342.7
42.5°	223.8
45°	128.4
47.5°	68.0
50°	42.3
52.5°	29.3
55°	21.0
57.5°	15.2
60°	10.5
62.5°	6.9
65°	4.9
67.5°	4.4
70°	4.2
72.5°	3.2
75°	2.5
77.5°	2.2
80°	1.7
82.5°	1.2
85°	0.7
87.5°	0.5
90°	0.0

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0°-180°

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(END OF REPORT)