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

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P205647

Luminaire Tested: **LD4B50D010TE EU4B30509040 4LBSWMH1**

Issue Date: 3/3/2020

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Test Information

Test Method:	LM-41-14
Report Number:	P205647
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35319)
Test Lab:	INNOVATION CENTER-P3
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	io LED
Catalog Number:	LD4B50D010TE EU4B30509040 4LBSWMH1
Description:	PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
	SHALLOW DISTRIBUTION WITH WARM HAZE TRIM
	SINGLE DRIVER D010TE
Light Source:	HIGH LUMEN LED
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4492.1 lumens
Efficiency:	N/A
Efficacy:	76.4 lumens/watt
Spacing Criteria (0/90/45):	0.99 / 0.99 / 1.08
Luminous Opening:	Point Source (0' x 0' x 0')
CIE Type:	Direct

Input Watts (W):	58.77
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:	25 FT

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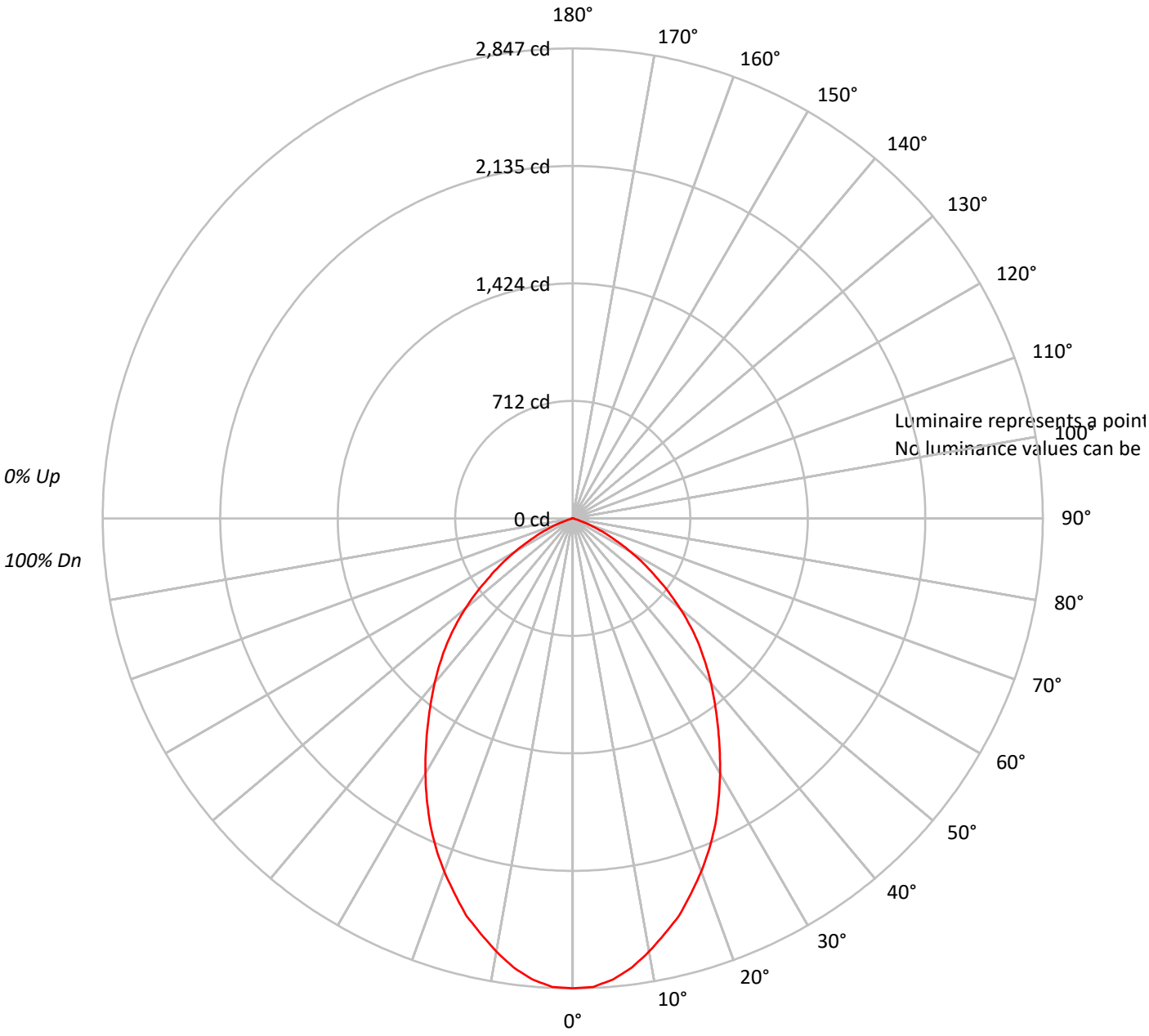
Luminous Intensity Polar Plot



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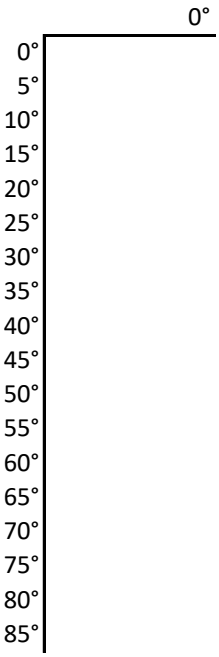
COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	96	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	83	73	65	59	82	72	64	59	70	63	59	68	62	58	66	61	57	56
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	50	44	40	49	44	39	49	43	39	38
10	60	48	41	37	59	48	41	37	47	41	36	46	40	36	45	40	36	35

AVERAGE LUMINANCE (cd/sqm):



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.1	5.9
10°-20°	697.3	15.5
20°-30°	936.5	20.8
30°-40°	958.6	21.3
40°-50°	829.8	18.5
50°-60°	551.9	12.3
60°-70°	226.7	5.0
70°-80°	26.9	0.6
80°-90°	1.2	0.0
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°	1897.0	42.2
0°-40°	2855.6	63.6
0°-60°	4237.3	94.3
0°-90°	4492.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4492.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2847	
5°	2803	263
15°	2491	697
25°	2043	937
35°	1531	959
45°	1080	830
55°	612	552
65°	224	227
75°	12	27
85°	0	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2847.1
2.5°	2841.2
5°	2802.9
7.5°	2744.0
10°	2664.5
12.5°	2576.2
15°	2490.8
17.5°	2381.9
20°	2275.9
22.5°	2164.0
25°	2043.3
27.5°	1913.8
30°	1784.2
32.5°	1654.7
35°	1531.0
37.5°	1413.2
40°	1301.4
42.5°	1189.5
45°	1080.5
47.5°	965.7
50°	847.9
52.5°	730.2
55°	612.4
57.5°	509.4
60°	403.4
62.5°	306.2
65°	223.8
67.5°	147.2
70°	85.4
72.5°	41.2
75°	11.8
77.5°	5.9
80°	2.9
82.5°	2.9
85°	0.0
87.5°	0.0
90°	0.0

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0°-180°

(END OF REPORT)