

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: P212185

Luminaire Tested: **LE_4B30D010 EC4B30509050 4LBS1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212185
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: LE_4B30D010 EC4B30509050 4LBS1MW
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH MATTE WHITE TRIM
WATTAGE D010TR-27.4W DE010-27.95W D5LT-27.65W DMX-27.73W DL2-29.56W
DL3-29.67W DLE-29.73W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

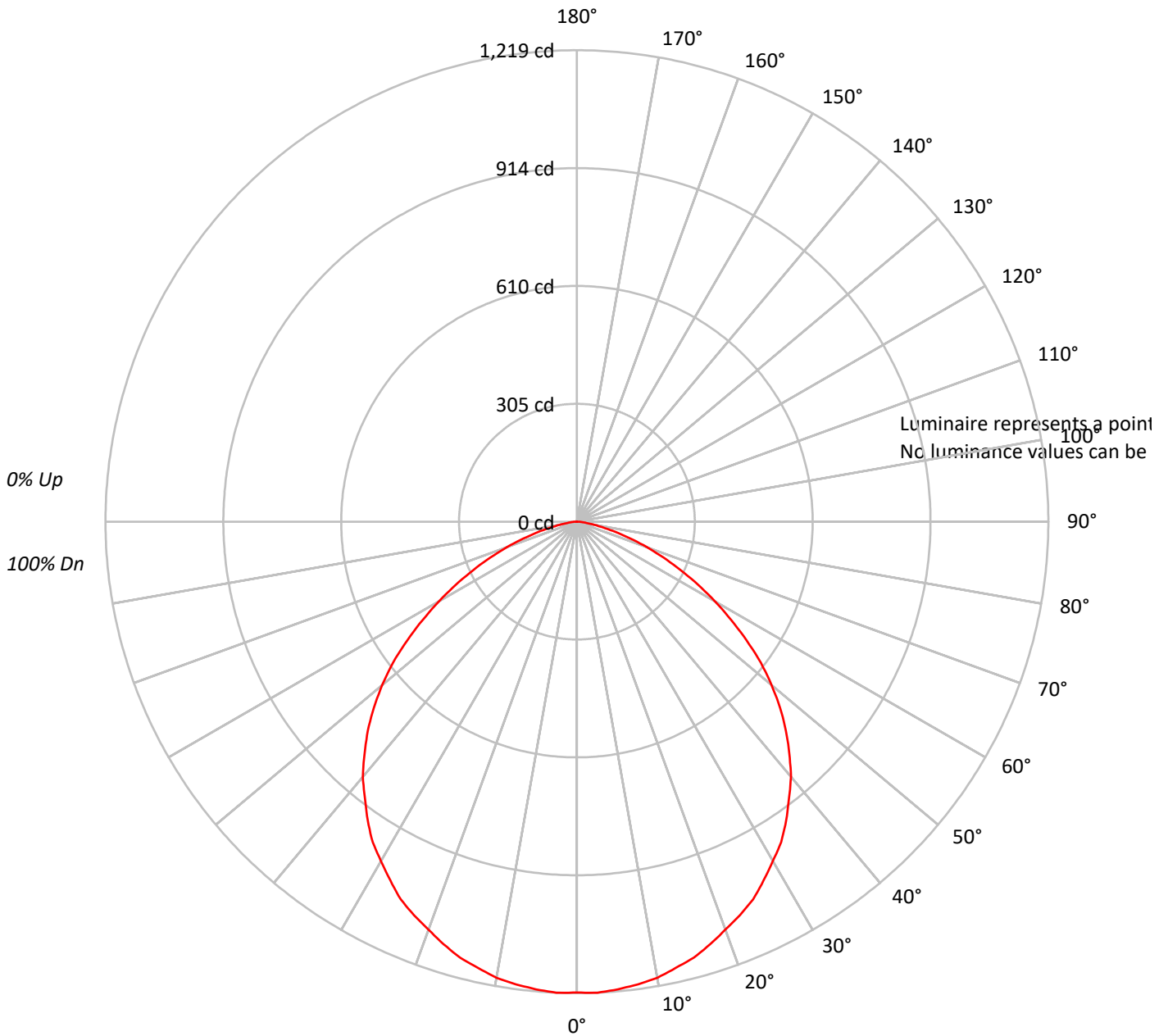
Lumens per Lamp: N/A
Luminaire Lumens: 3021.5 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): 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	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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86				86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74				74
3	93	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63				63
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	47				47
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42				42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39	37				37
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33				33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30				30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	3.8
10°-20°	328.8	10.9
20°-30°	495.2	16.4
30°-40°	589.2	19.5
40°-50°	588.2	19.5
50°-60°	478.3	15.8
60°-70°	294.3	9.7
70°-80°	114.0	3.8
80°-90°	18.3	0.6
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°	939.3	31.1
0°-40°	1528.6	50.6
0°-60°	2595.0	85.9
0°-90°	3021.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3021.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1217	
5°	1214	115
15°	1167	329
25°	1078	495
35°	943	589
45°	764	588
55°	535	478
65°	296	294
75°	104	114
85°	14	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1217.4
2.5°	1219.2
5°	1213.8
7.5°	1206.6
10°	1197.7
12.5°	1181.6
15°	1167.3
17.5°	1145.7
20°	1122.5
22.5°	1101.1
25°	1077.8
27.5°	1045.5
30°	1013.3
32.5°	982.9
35°	943.4
37.5°	900.5
40°	861.2
42.5°	812.8
45°	764.4
47.5°	712.6
50°	657.0
52.5°	599.7
55°	535.3
57.5°	472.6
60°	411.8
62.5°	352.6
65°	295.5
67.5°	241.7
70°	191.5
72.5°	145.0
75°	103.8
77.5°	68.0
80°	41.2
82.5°	25.1
85°	14.3
87.5°	7.2
90°	0.0



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— 0°-180°







(END OF REPORT)