

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: P211325

Luminaire Tested: **LE_4B15D010 EC4B10208040 4LBCS1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211325
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_4B15D010 EC4B10208040 4LBCS1MMS
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST MATTE BLACK TRIM
WATTAGE D010TR-14.39W DE010-14.29W D5LT-14.34W DMX-14.46W DL2-15.8W
DL3-15.28W DLE-15.432W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1584.0 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

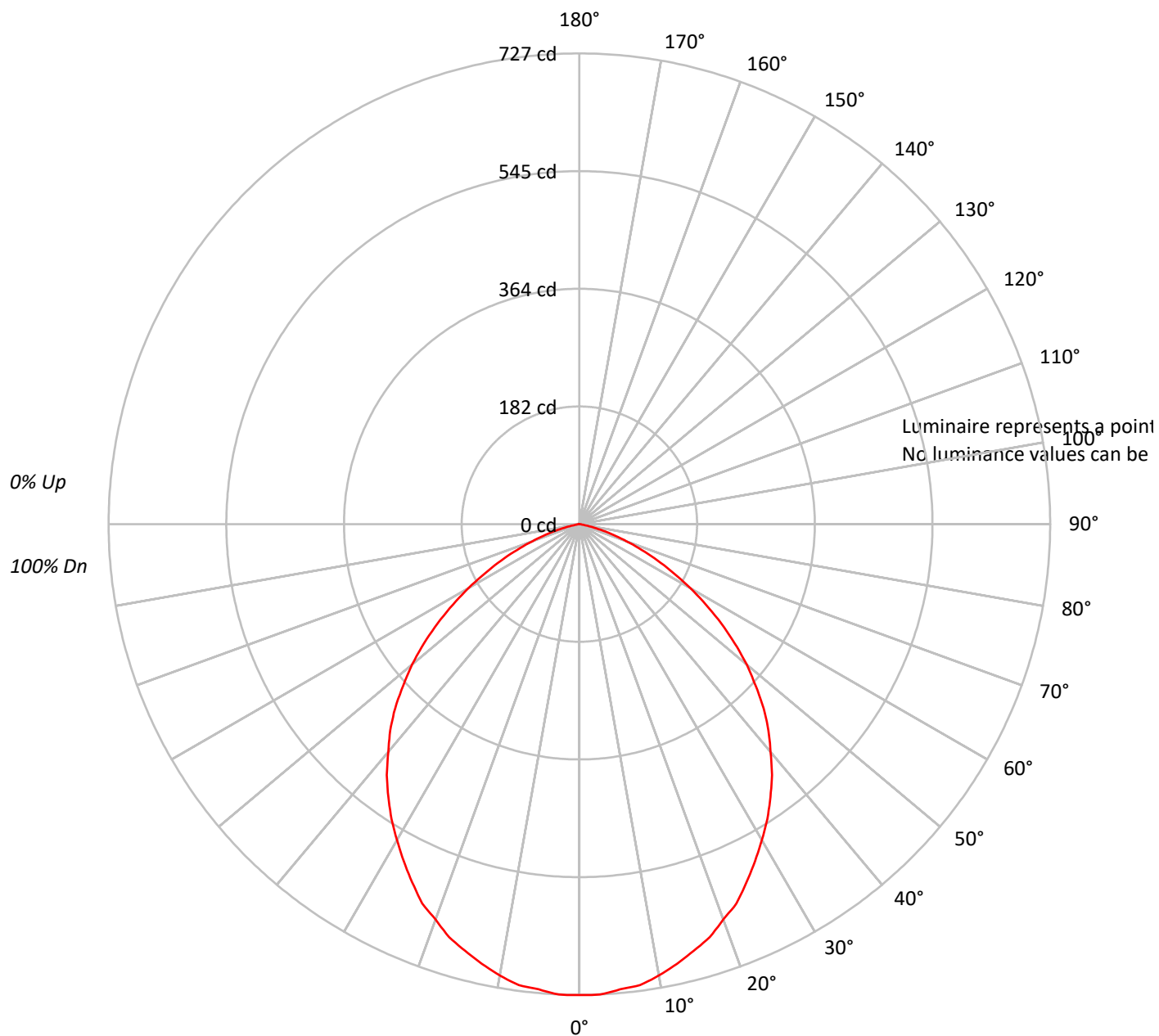
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





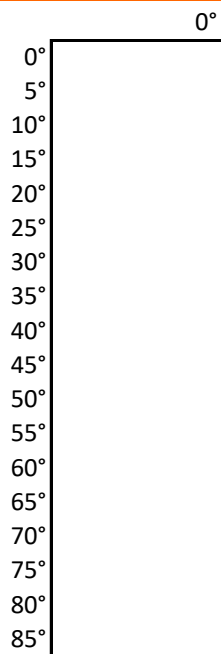
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88		88
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	83	80	78	76		76
3	94	85	77	72	92	83	76	71	80	74	70	77	73	69	75	71	67	65		65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57		57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50		50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44		44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40		40
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36		36
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32		32
10	57	44	36	31	55	43	36	31	43	36	31	42	35	31	41	35	31	29		29

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	4.3
10°-20°	192.4	12.1
20°-30°	281.0	17.7
30°-40°	321.4	20.3
40°-50°	308.8	19.5
50°-60°	238.5	15.1
60°-70°	133.1	8.4
70°-80°	38.7	2.4
80°-90°	1.7	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°	541.9	34.2
0°-40°	863.2	54.5
0°-60°	1410.5	89.0
0°-90°	1584.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1584.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	727	
5°	721	69
15°	682	192
25°	611	281
35°	514	321
45°	403	309
55°	267	238
65°	133	133
75°	34	39
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	727.4
2.5°	727.4
5°	721.3
7.5°	718.3
10°	707.9
12.5°	695.7
15°	682.3
17.5°	669.1
20°	649.6
22.5°	634.2
25°	610.6
27.5°	587.1
30°	563.5
32.5°	540.0
35°	514.3
37.5°	488.7
40°	459.0
42.5°	432.3
45°	402.6
47.5°	368.9
50°	337.1
52.5°	302.3
55°	267.4
57.5°	231.5
60°	197.8
62.5°	163.9
65°	133.2
67.5°	104.5
70°	77.8
72.5°	54.3
75°	33.8
77.5°	17.4
80°	6.1
82.5°	2.1
85°	1.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)