

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: P211297

Luminaire Tested: **LE_4B15D010 EC4B10209035 4LBCS1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211297
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 EC4B10209035 4LBCS1MW
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST MATTE WHITE 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: 1567.6 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

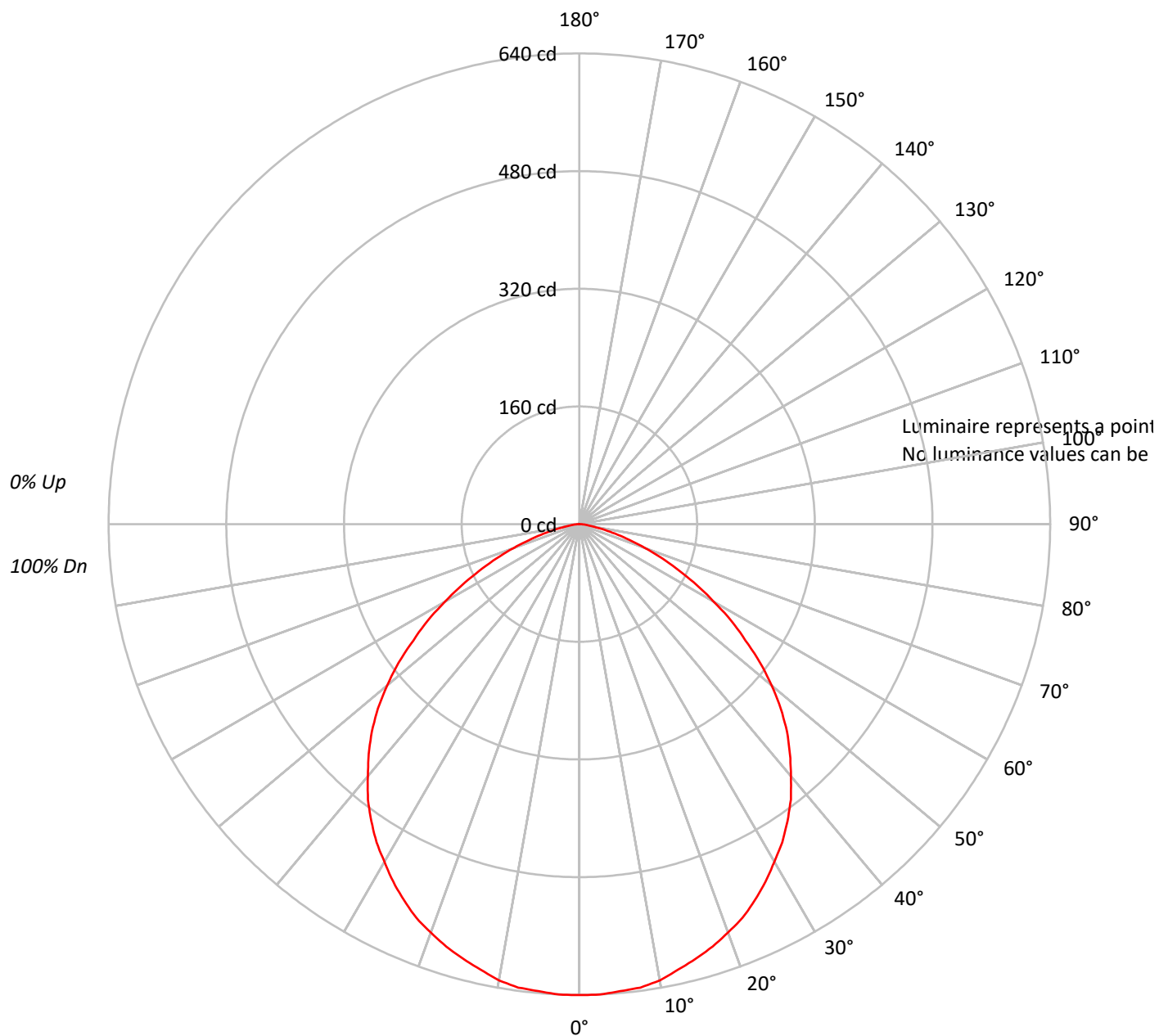
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





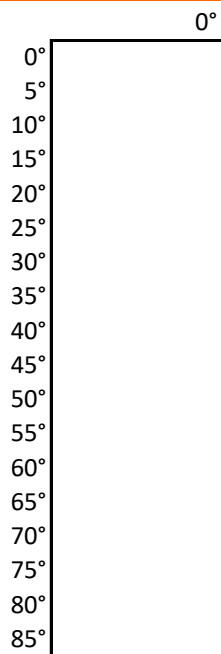
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	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
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76
3	93	83	75	70	90	81	74	69	79	73	68	76	71	67	73	69	65
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32
10	55	42	35	30	54	42	34	30	41	34	29	40	34	29	39	33	29

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	3.9
10°-20°	172.7	11.0
20°-30°	259.8	16.6
30°-40°	307.9	19.6
40°-50°	306.4	19.5
50°-60°	247.0	15.8
60°-70°	149.4	9.5
70°-80°	55.4	3.5
80°-90°	8.3	0.5
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°	493.2	31.5
0°-40°	801.1	51.1
0°-60°	1354.5	86.4
0°-90°	1567.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1567.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	640	
5°	637	61
15°	612	173
25°	564	260
35°	493	308
45°	399	306
55°	276	247
65°	150	149
75°	50	55
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	640.3
2.5°	640.3
5°	637.4
7.5°	635.6
10°	629.9
12.5°	620.4
15°	611.8
17.5°	602.3
20°	590.9
22.5°	579.5
25°	564.3
27.5°	548.2
30°	530.1
32.5°	513.1
35°	493.1
37.5°	472.1
40°	447.4
42.5°	423.7
45°	399.0
47.5°	371.4
50°	341.0
52.5°	309.7
55°	275.5
57.5°	245.1
60°	210.9
62.5°	180.5
65°	150.1
67.5°	121.6
70°	95.0
72.5°	71.2
75°	50.3
77.5°	32.2
80°	19.0
82.5°	11.4
85°	6.6
87.5°	2.9
90°	0.0



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— 0°-180°







(END OF REPORT)