

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: P211113

Luminaire Tested: **LE_4B15D010 EC4B10208027 4LBS1WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211113
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 EC4B10208027 4LBS1WH
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH WHEAT 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: 1638.8 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 1.08
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

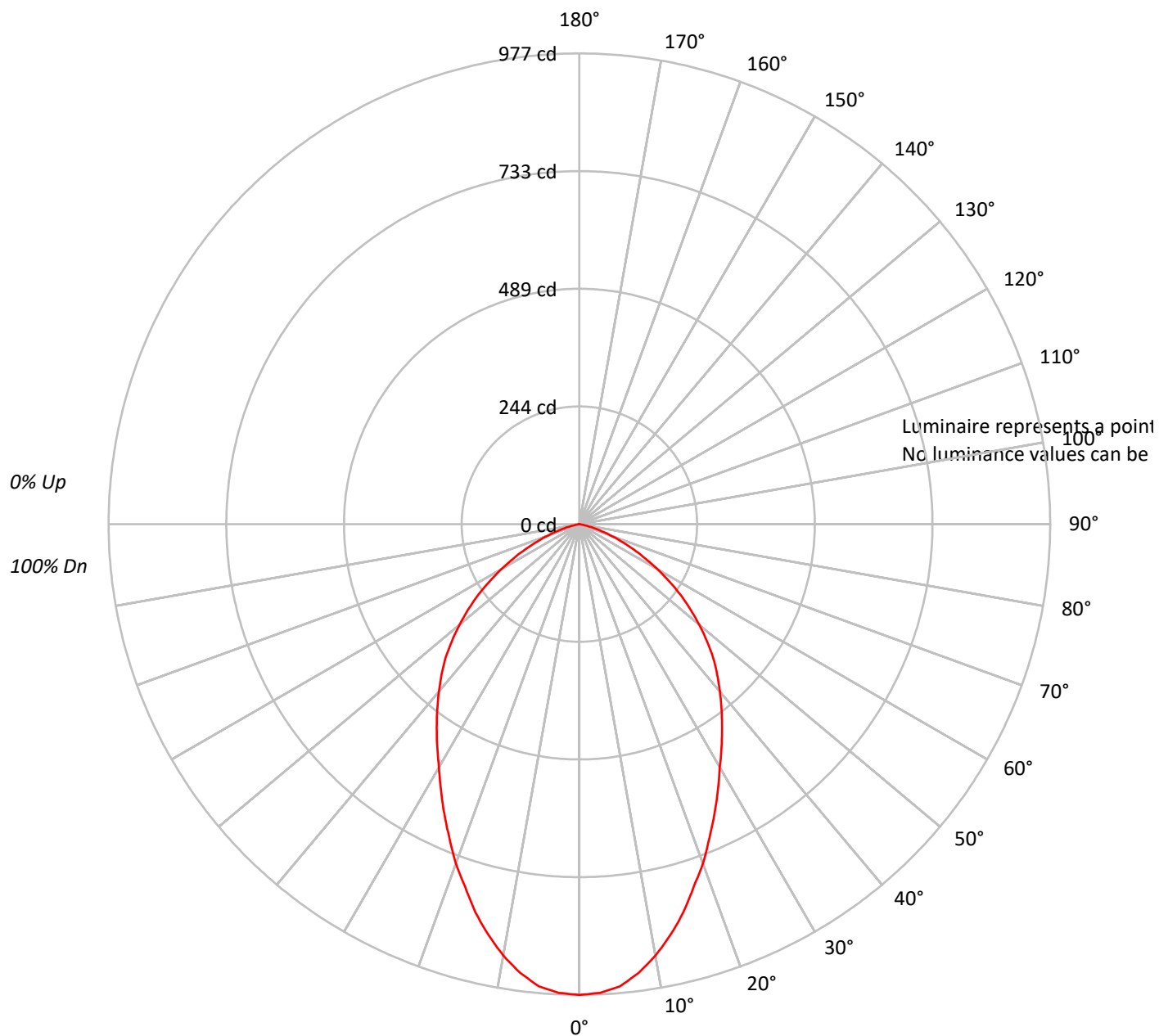
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





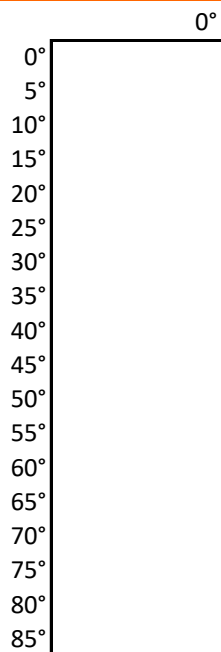
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	50	30
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89	
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77	
3	95	86	79	73	93	84	78	73	82	76	72	79	74	70	76	73	69	67	
4	88	77	70	64	86	76	69	63	74	68	63	72	66	62	69	65	61	59	
5	81	70	62	56	79	69	62	56	67	60	55	65	59	55	63	58	54	52	
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47	
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42	
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38	
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	37	35	
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32	

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.1	5.5
10°-20°	233.3	14.2
20°-30°	305.2	18.6
30°-40°	323.1	19.7
40°-50°	301.4	18.4
50°-60°	228.3	13.9
60°-70°	123.7	7.5
70°-80°	33.1	2.0
80°-90°	0.5	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°	628.6	38.4
0°-40°	951.8	58.1
0°-60°	1481.5	90.4
0°-90°	1638.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1638.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	977	
5°	963	90
15°	834	233
25°	664	305
35°	516	323
45°	393	301
55°	256	228
65°	124	124
75°	29	33
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	977.3
2.5°	973.8
5°	963.0
7.5°	939.7
10°	909.2
12.5°	873.4
15°	833.9
17.5°	789.0
20°	749.6
22.5°	704.8
25°	663.5
27.5°	622.2
30°	582.8
32.5°	548.8
35°	516.4
37.5°	484.2
40°	453.7
42.5°	423.2
45°	392.8
47.5°	358.7
50°	324.6
52.5°	290.5
55°	256.5
57.5°	220.6
60°	186.5
62.5°	154.3
65°	123.8
67.5°	95.0
70°	69.9
72.5°	48.4
75°	28.7
77.5°	12.5
80°	3.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)