

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: P211399

Luminaire Tested: **LE_4B15D010 EC4B10208050 4LBS1GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211399
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 EC4B10208050 4LBS1GPH
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH GRAPHITE HAZE 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: 1618.0 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.26
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

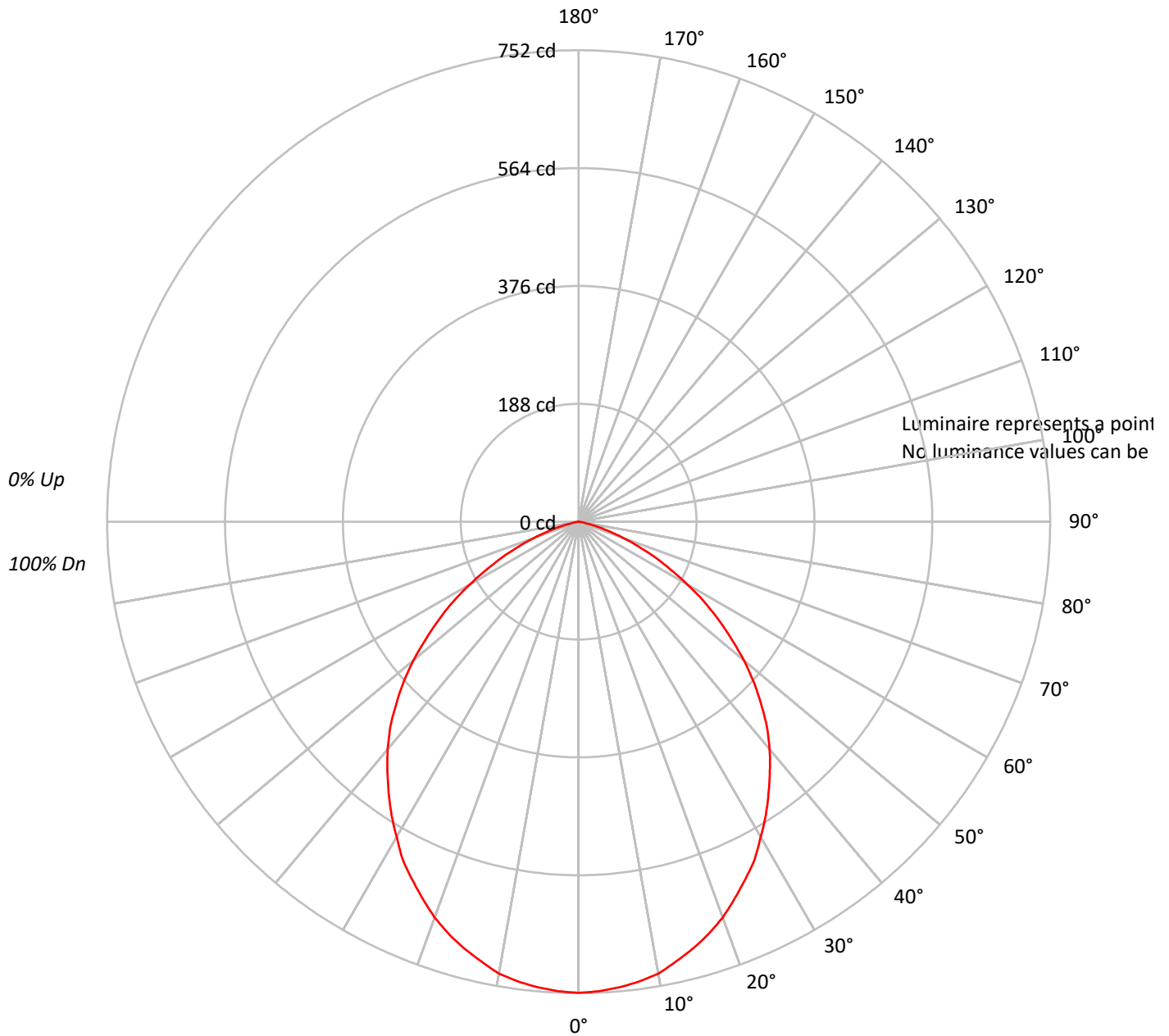
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





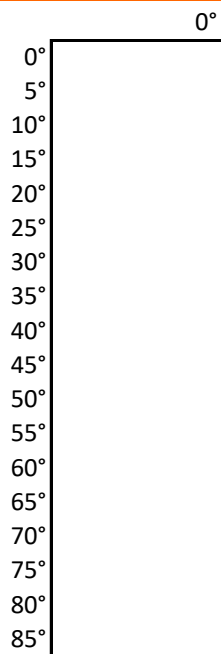
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	105	102	99	101	98	96		97	95	93		93
2	102	95	89	84	100	93	88	83	90	85	82		87	83	80		84
3	94	85	78	72	92	83	77	71	80	75	70		78	73	69		75
4	87	76	68	62	85	75	67	62	72	66	61		70	65	60		68
5	80	68	60	54	78	67	60	54	65	59	53		63	58	53		62
6	74	62	54	48	73	61	53	48	59	52	47		58	52	47		56
7	69	57	48	43	68	56	48	43	54	47	42		53	47	42		52
8	65	52	44	38	63	51	44	38	50	43	38		49	42	38		48
9	60	48	40	35	59	47	40	35	46	39	35		45	39	34		44
10	57	44	37	32	56	44	36	32	43	36	31		42	36	31		41

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	4.4
10°-20°	198.6	12.3
20°-30°	289.7	17.9
30°-40°	330.3	20.4
40°-50°	316.9	19.6
50°-60°	242.7	15.0
60°-70°	133.2	8.2
70°-80°	35.4	2.2
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°	559.0	34.6
0°-40°	889.4	55.0
0°-60°	1448.9	89.5
0°-90°	1618.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1618.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	752	
5°	746	71
15°	705	199
25°	629	290
35°	528	330
45°	412	317
55°	272	243
65°	134	133
75°	31	35
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	751.6
2.5°	749.6
5°	745.6
7.5°	739.8
10°	732.1
12.5°	718.5
15°	704.9
17.5°	689.4
20°	671.9
22.5°	650.5
25°	629.2
27.5°	607.8
30°	580.6
32.5°	555.4
35°	528.1
37.5°	501.0
40°	473.9
42.5°	444.7
45°	411.7
47.5°	378.6
50°	343.7
52.5°	306.8
55°	271.9
57.5°	236.9
60°	200.0
62.5°	165.1
65°	134.0
67.5°	102.9
70°	75.7
72.5°	50.5
75°	31.1
77.5°	13.6
80°	3.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)