

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: P210848

Luminaire Tested: **LE_4B10D010 EC4B10209030 4LBS1GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210848
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_4B10D010 EC4B10209030 4LBS1GPH
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH GRAPHITE HAZE TRIM
WATTAGE D010TR-10.05W DE010-10.58W D5LT-10.2W DMX-10.6W DL2-11.8W
DL3-11.1W DLE-11.39W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 958.5 lumens
Efficiency: N/A
Efficacy: 96.8 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

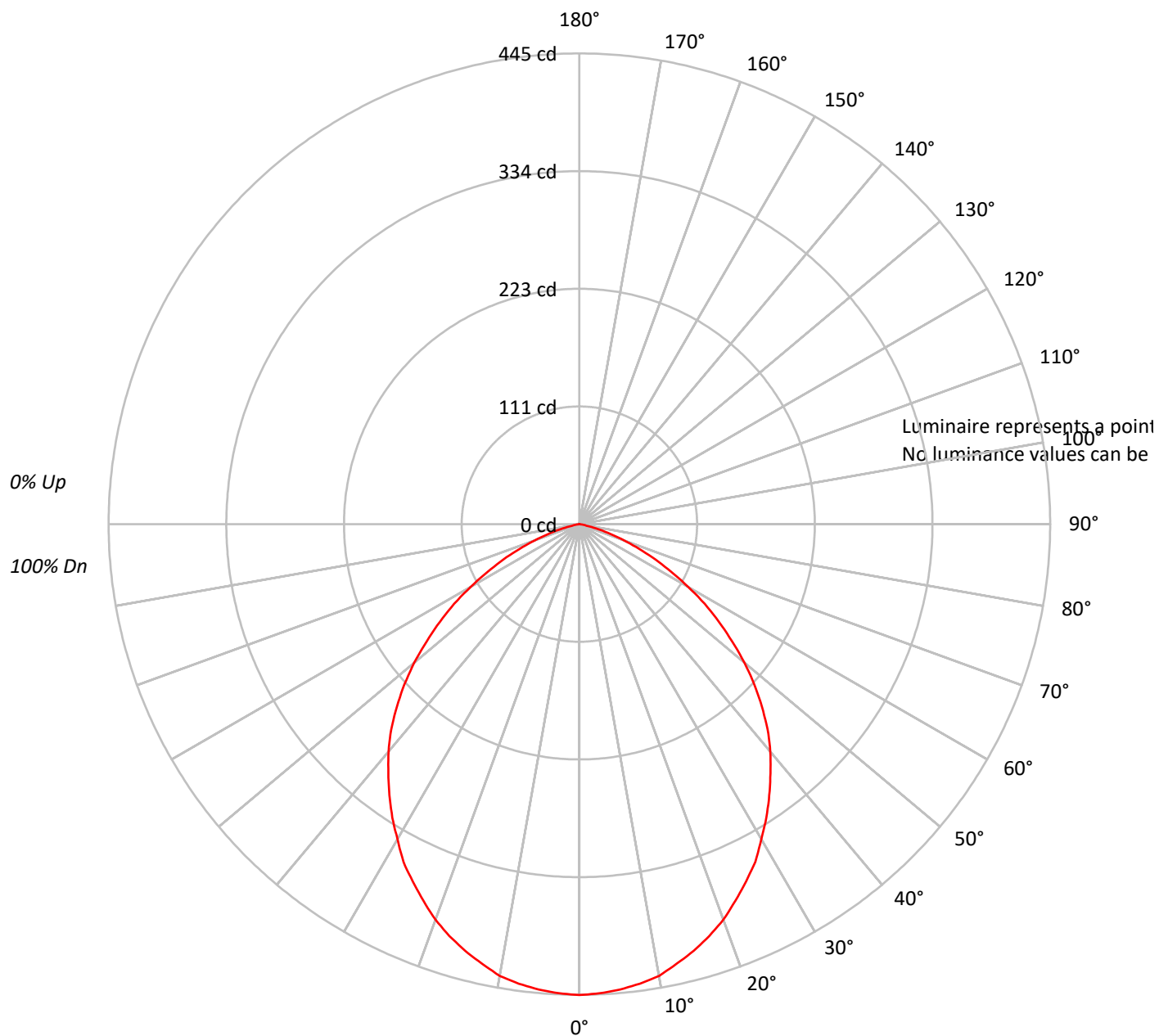
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	41.9	4.4
10°-20°	117.7	12.3
20°-30°	171.6	17.9
30°-40°	195.7	20.4
40°-50°	187.7	19.6
50°-60°	143.8	15.0
60°-70°	78.9	8.2
70°-80°	21.0	2.2
80°-90°	0.3	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°	331.2	34.6
0°-40°	526.8	55.0
0°-60°	858.3	89.6
0°-90°	958.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	958.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	445	
5°	442	42
15°	418	118
25°	373	172
35°	313	196
45°	244	188
55°	161	144
65°	79	79
75°	18	21
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	445.2
2.5°	444.0
5°	441.7
7.5°	438.2
10°	433.7
12.5°	425.6
15°	417.6
17.5°	408.3
20°	398.0
22.5°	385.4
25°	372.7
27.5°	360.1
30°	343.9
32.5°	329.0
35°	312.9
37.5°	296.7
40°	280.7
42.5°	263.4
45°	243.8
47.5°	224.3
50°	203.6
52.5°	181.8
55°	161.0
57.5°	140.4
60°	118.4
62.5°	97.8
65°	79.3
67.5°	61.0
70°	44.9
72.5°	29.9
75°	18.4
77.5°	8.0
80°	2.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)