

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: P210822

Luminaire Tested: **LE_4B10D010 EC4B10208030 4LBS1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210822
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 EC4B10208030 4LBS1MW
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH MATTE WHITE 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: 1275.7 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

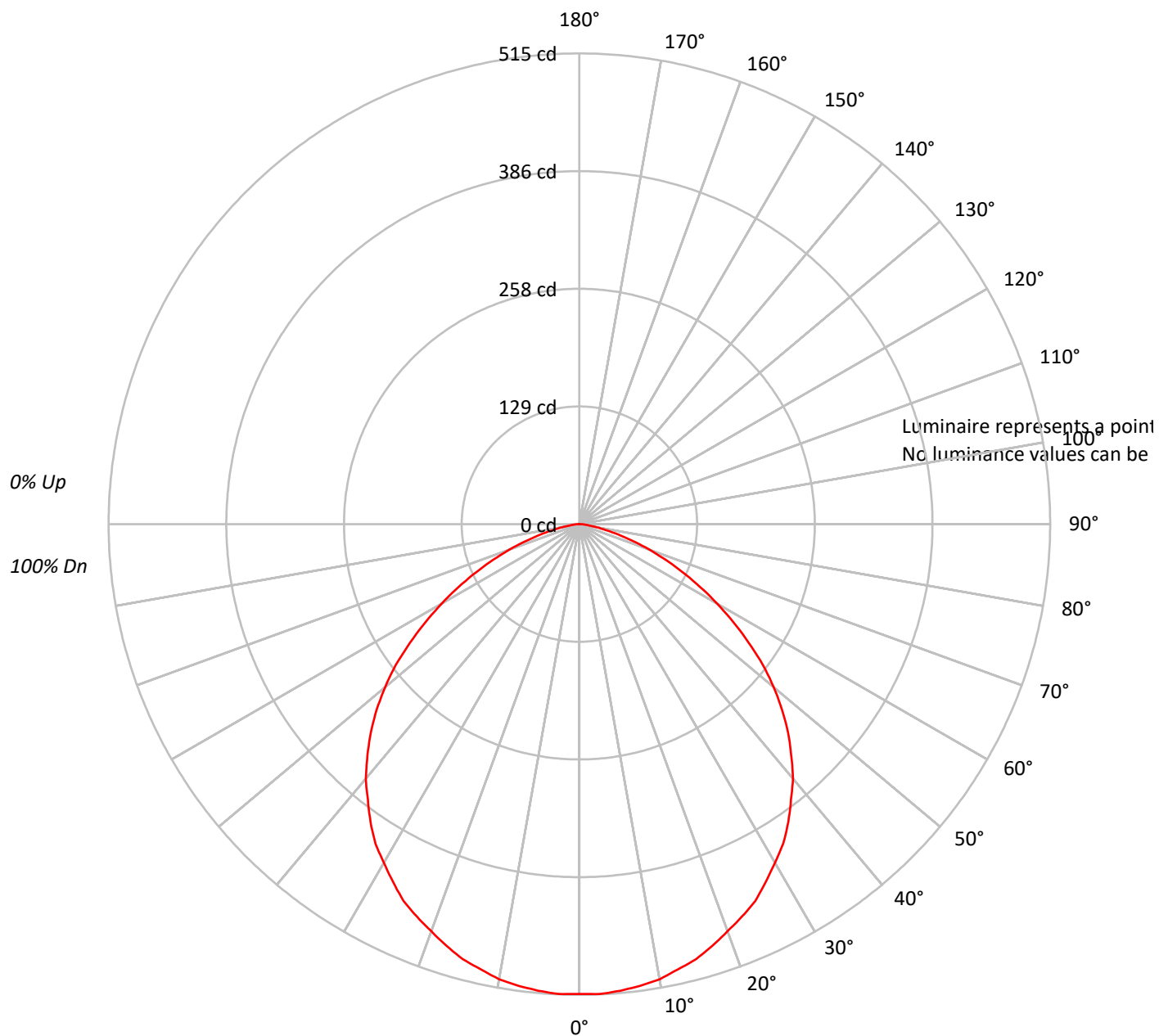
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





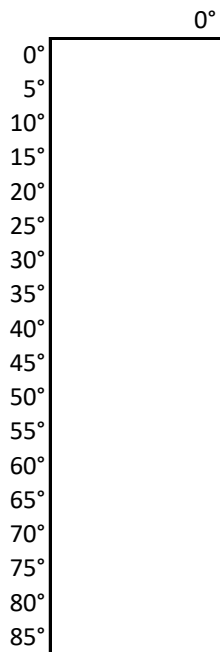
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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		
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	93	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63		
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54		
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	47		
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42		
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39	37		
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33		
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30		
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	3.8
10°-20°	138.8	10.9
20°-30°	209.1	16.4
30°-40°	248.7	19.5
40°-50°	248.3	19.5
50°-60°	201.9	15.8
60°-70°	124.3	9.7
70°-80°	48.1	3.8
80°-90°	7.7	0.6
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°	396.6	31.1
0°-40°	645.3	50.6
0°-60°	1095.6	85.9
0°-90°	1275.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1275.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	514	
5°	512	49
15°	493	139
25°	455	209
35°	398	249
45°	323	248
55°	226	202
65°	125	124
75°	44	48
85°	6	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	514.0
2.5°	514.7
5°	512.5
7.5°	509.5
10°	505.6
12.5°	498.9
15°	492.8
17.5°	483.7
20°	474.0
22.5°	464.8
25°	455.1
27.5°	441.4
30°	427.8
32.5°	414.9
35°	398.3
37.5°	380.2
40°	363.5
42.5°	343.1
45°	322.7
47.5°	300.8
50°	277.4
52.5°	253.2
55°	226.0
57.5°	199.5
60°	173.9
62.5°	148.9
65°	124.7
67.5°	102.1
70°	80.9
72.5°	61.2
75°	43.8
77.5°	28.8
80°	17.4
82.5°	10.6
85°	6.0
87.5°	3.0
90°	0.0



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— 0°-180°







(END OF REPORT)