

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: P210687

Luminaire Tested: **LE_4B10D010 EC4B10209024 4LBCS1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210687
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 EC4B10209024 4LBCS1MMS
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST MATTE BLACK 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: 793.2 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

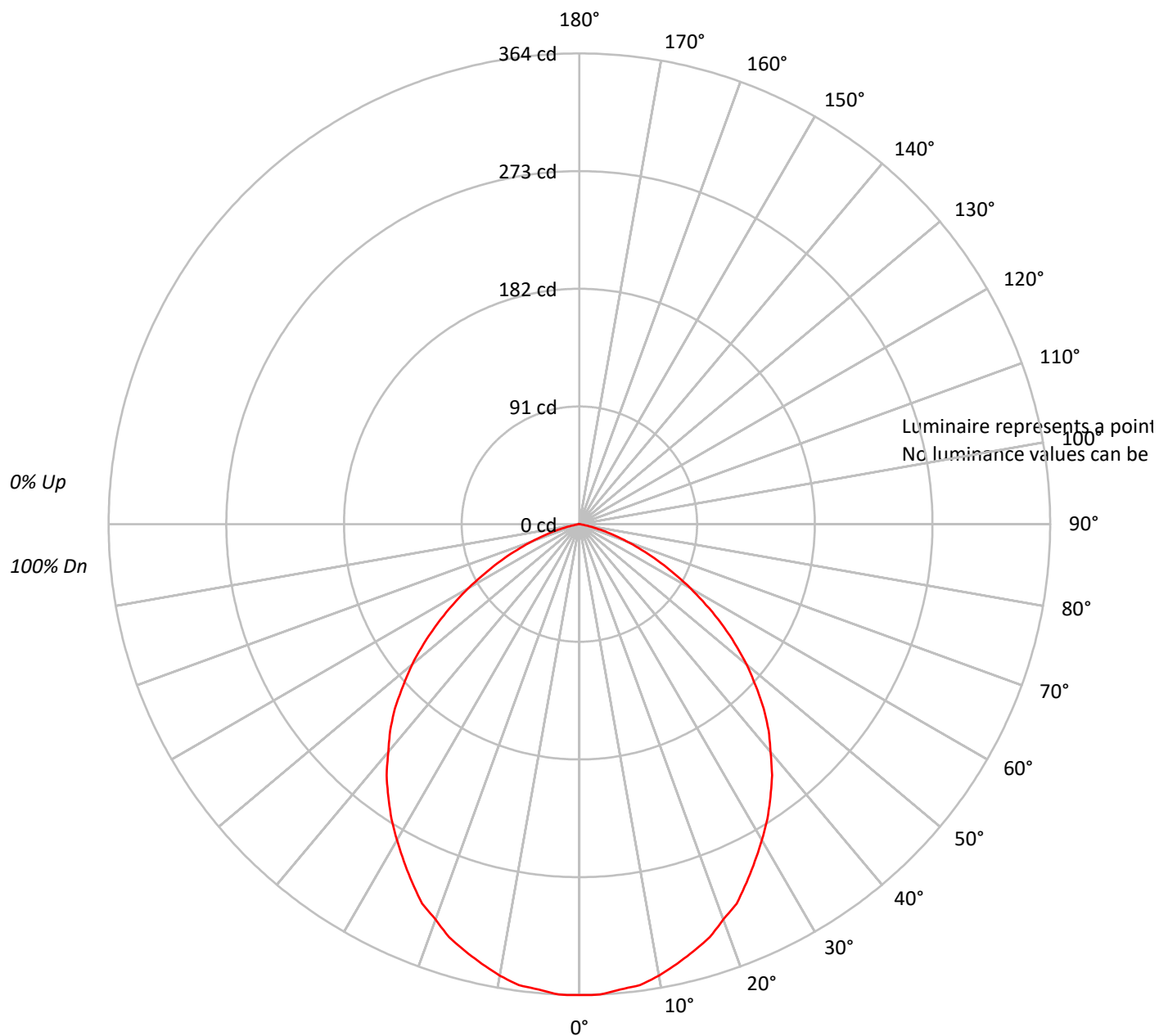
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





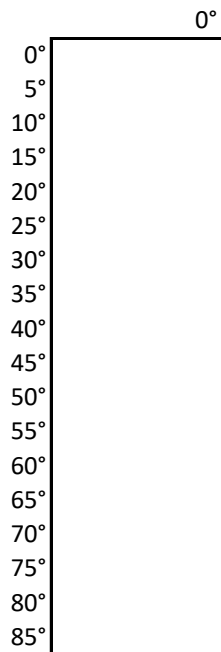
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
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	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88		
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	83	80	78	76		
3	94	85	77	72	92	83	76	71	80	74	70	77	73	69	75	71	67	65		
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57		
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50		
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44		
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40		
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36		
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32		
10	57	44	36	31	55	43	36	31	43	36	31	42	35	31	41	35	31	29		

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.3	4.3
10°-20°	96.3	12.1
20°-30°	140.7	17.7
30°-40°	160.9	20.3
40°-50°	154.6	19.5
50°-60°	119.5	15.1
60°-70°	66.7	8.4
70°-80°	19.4	2.4
80°-90°	0.8	0.1
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°	271.3	34.2
0°-40°	432.2	54.5
0°-60°	706.3	89.1
0°-90°	793.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	793.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	364	
5°	361	34
15°	342	96
25°	306	141
35°	258	161
45°	202	155
55°	134	119
65°	67	67
75°	17	19
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	364.2
2.5°	364.2
5°	361.2
7.5°	359.6
10°	354.5
12.5°	348.3
15°	341.7
17.5°	335.0
20°	325.3
22.5°	317.6
25°	305.8
27.5°	293.9
30°	282.1
32.5°	270.4
35°	257.5
37.5°	244.8
40°	229.8
42.5°	216.5
45°	201.6
47.5°	184.7
50°	168.8
52.5°	151.4
55°	133.9
57.5°	116.0
60°	99.1
62.5°	82.1
65°	66.7
67.5°	52.3
70°	39.0
72.5°	27.1
75°	16.9
77.5°	8.7
80°	3.1
82.5°	1.0
85°	0.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)