

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: P210887

Luminaire Tested: **LE_4B10D010 EC4B10209730 4LBW1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210887
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 EC4B10209730 4LBW1MW
Description: PORTFOLIO 4 INCH CYLINDER
WIDE 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: 811.8 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

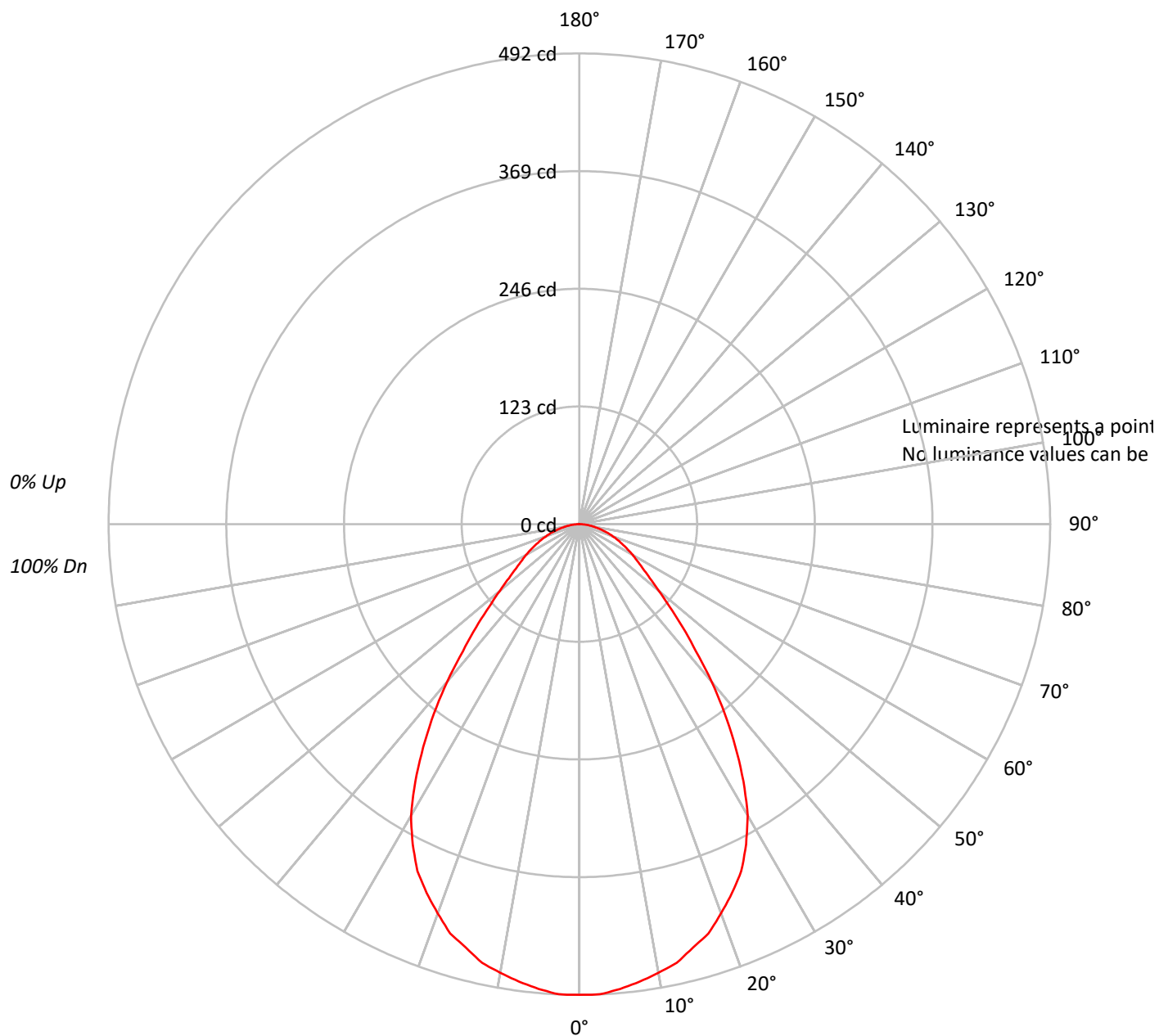
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





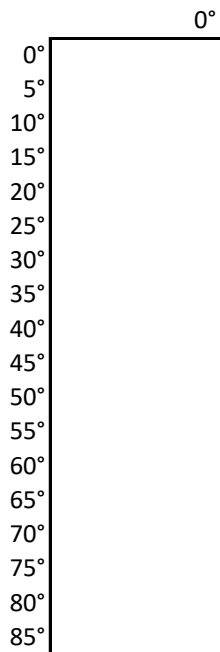
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			100
1	111	107	104	101	108	105	102	99		101	98	96			97	95	93			88
2	103	96	91	86	101	94	89	85		91	87	83			88	84	81			78
3	96	87	80	75	93	85	79	74		83	77	73			80	76	72			69
4	89	79	72	66	87	78	71	66		75	69	65			73	68	64			61
5	83	72	64	59	81	71	64	58		69	63	58			67	62	57			55
6	78	66	58	53	76	65	58	53		64	57	52			62	56	52			50
7	73	61	53	48	71	60	53	48		59	52	47			57	51	47			45
8	68	56	49	44	67	56	49	44		54	48	43			53	47	43			41
9	64	52	45	40	63	52	45	40		51	44	40			50	44	40			38
10	61	49	42	37	59	48	41	37		47	41	37			46	41	37			35

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.2	5.7
10°-20°	129.2	15.9
20°-30°	182.5	22.5
30°-40°	176.8	21.8
40°-50°	119.3	14.7
50°-60°	74.0	9.1
60°-70°	49.5	6.1
70°-80°	27.1	3.3
80°-90°	7.2	0.9
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°	357.9	44.1
0°-40°	534.7	65.9
0°-60°	728.0	89.7
0°-90°	811.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	811.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	492	
5°	488	46
15°	458	129
25°	400	183
35°	284	177
45°	153	119
55°	81	74
65°	50	49
75°	25	27
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	492.0
2.5°	492.0
5°	487.7
7.5°	482.4
10°	476.1
12.5°	469.8
15°	458.2
17.5°	448.7
20°	432.9
22.5°	417.1
25°	400.3
27.5°	377.1
30°	351.8
32.5°	319.1
35°	284.4
37.5°	249.6
40°	214.8
42.5°	180.1
45°	152.8
47.5°	127.5
50°	108.5
52.5°	92.7
55°	81.1
57.5°	71.6
60°	64.3
62.5°	56.8
65°	49.5
67.5°	43.2
70°	36.9
72.5°	31.6
75°	25.3
77.5°	20.1
80°	14.7
82.5°	10.6
85°	6.3
87.5°	2.1
90°	0.0



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— 0°-180°







(END OF REPORT)