

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: P210938

Luminaire Tested: **LE_4B10D010 EC4B10209035 4LBS1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210938
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 EC4B10209035 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: 1105.8 lumens
Efficiency: N/A
Efficacy: 111.7 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

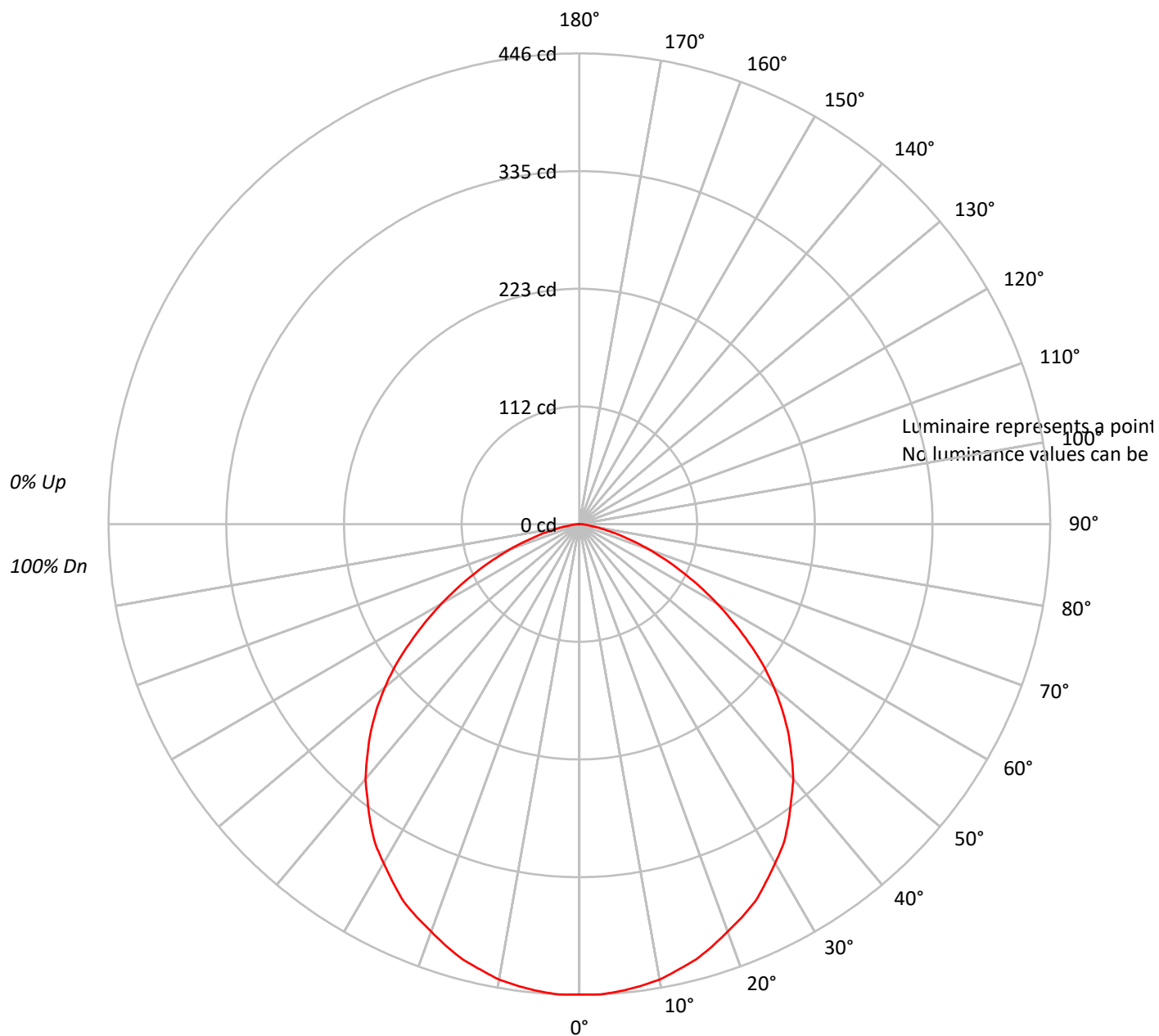
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	0
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°	42.2	3.8
10°-20°	120.3	10.9
20°-30°	181.2	16.4
30°-40°	215.6	19.5
40°-50°	215.3	19.5
50°-60°	175.1	15.8
60°-70°	107.7	9.7
70°-80°	41.7	3.8
80°-90°	6.7	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°	343.7	31.1
0°-40°	559.4	50.6
0°-60°	949.7	85.9
0°-90°	1105.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1105.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	446	
5°	444	42
15°	427	120
25°	394	181
35°	345	216
45°	280	215
55°	196	175
65°	108	108
75°	38	42
85°	5	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	445.6
2.5°	446.1
5°	444.2
7.5°	441.6
10°	438.2
12.5°	432.4
15°	427.1
17.5°	419.3
20°	410.8
22.5°	402.9
25°	394.4
27.5°	382.6
30°	370.9
32.5°	359.7
35°	345.2
37.5°	329.6
40°	315.2
42.5°	297.4
45°	279.8
47.5°	260.8
50°	240.5
52.5°	219.5
55°	195.9
57.5°	173.0
60°	150.7
62.5°	129.1
65°	108.1
67.5°	88.4
70°	70.1
72.5°	53.0
75°	38.0
77.5°	24.9
80°	15.1
82.5°	9.2
85°	5.2
87.5°	2.7
90°	0.0



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— 0°-180°







(END OF REPORT)