

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: P211418

Luminaire Tested: **LE_4B15D010 EC4B10209050 4LBM1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211418
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_4B15D010 EC4B10209050 4LBM1MW
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM DISTRIBUTION WITH MATTE WHITE TRIM
WATTAGE D010TR-14.39W DE010-14.29W D5LT-14.34W DMX-14.46W DL2-15.8W
DL3-15.28W DLE-15.432W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1182.5 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 0.99 / 0.97
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

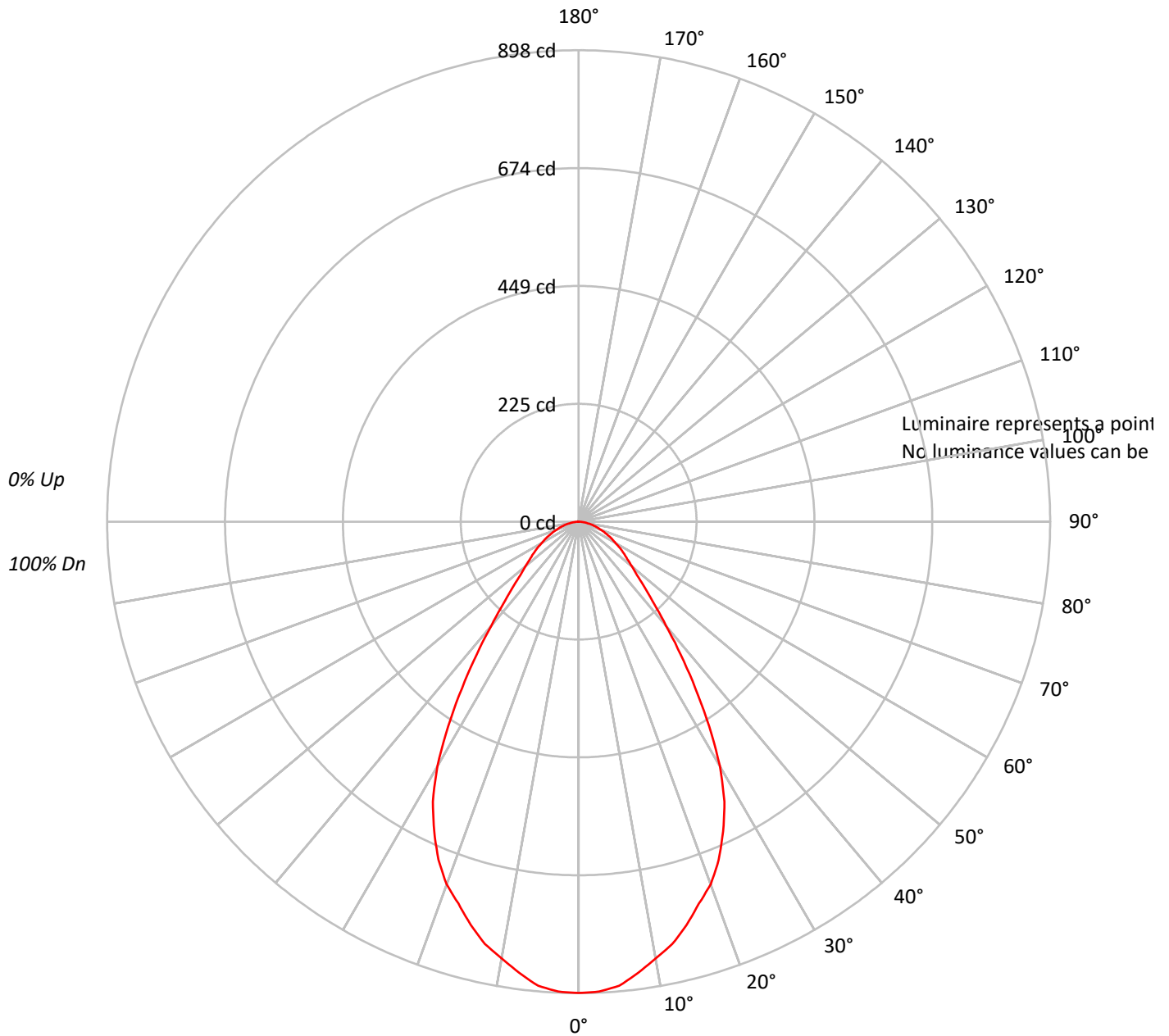
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





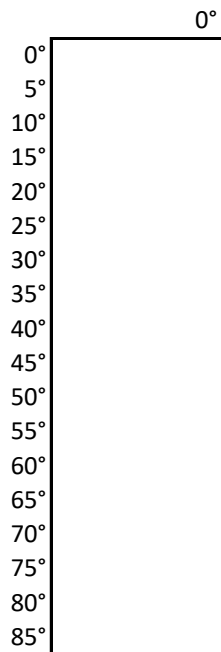
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	112	108	105	102		109	106	103	100		102	99	97			98	96	94			94
2	104	98	92	88		102	96	91	87		93	89	85			89	86	83			87
3	97	89	83	77		95	87	82	77		85	80	76			82	78	74			80
4	91	81	74	69		89	80	74	69		78	72	68			76	71	67			74
5	85	75	67	62		83	74	67	62		72	66	61			70	65	61			68
6	80	69	62	56		78	68	61	56		66	60	56			65	59	55			63
7	75	64	57	52		74	63	56	51		62	56	51			60	55	51			59
8	71	59	52	47		69	59	52	47		58	51	47			56	51	47			55
9	67	55	48	44		66	55	48	44		54	48	44			53	47	43			52
10	63	52	45	41		62	51	45	41		51	45	40			50	44	40			49

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	7.0
10°-20°	223.1	18.9
20°-30°	296.6	25.1
30°-40°	242.6	20.5
40°-50°	141.3	11.9
50°-60°	93.7	7.9
60°-70°	61.6	5.2
70°-80°	32.5	2.8
80°-90°	7.9	0.7
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°	602.9	51.0
0°-40°	845.5	71.5
0°-60°	1080.5	91.4
0°-90°	1182.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1182.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	898	
5°	887	83
15°	795	223
25°	651	297
35°	387	243
45°	178	141
55°	104	94
65°	62	62
75°	31	33
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	897.7
2.5°	896.0
5°	887.4
7.5°	866.9
10°	844.6
12.5°	824.1
15°	794.9
17.5°	762.4
20°	735.0
22.5°	697.3
25°	651.0
27.5°	601.3
30°	537.9
32.5°	462.5
35°	387.2
37.5°	318.7
40°	258.7
42.5°	212.4
45°	178.2
47.5°	150.8
50°	131.9
52.5°	116.5
55°	104.5
57.5°	92.5
60°	80.5
62.5°	71.9
65°	61.7
67.5°	53.1
70°	44.5
72.5°	37.7
75°	30.9
77.5°	24.0
80°	17.2
82.5°	11.9
85°	6.8
87.5°	1.7
90°	0.0



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— 0°-180°







(END OF REPORT)