

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: P210954

Luminaire Tested: **LE_4B10D010 EC4B10208040 4LBM1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210954
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 EC4B10208040 4LBM1MW
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM 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: 1009.8 lumens
Efficiency: N/A
Efficacy: 102.0 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

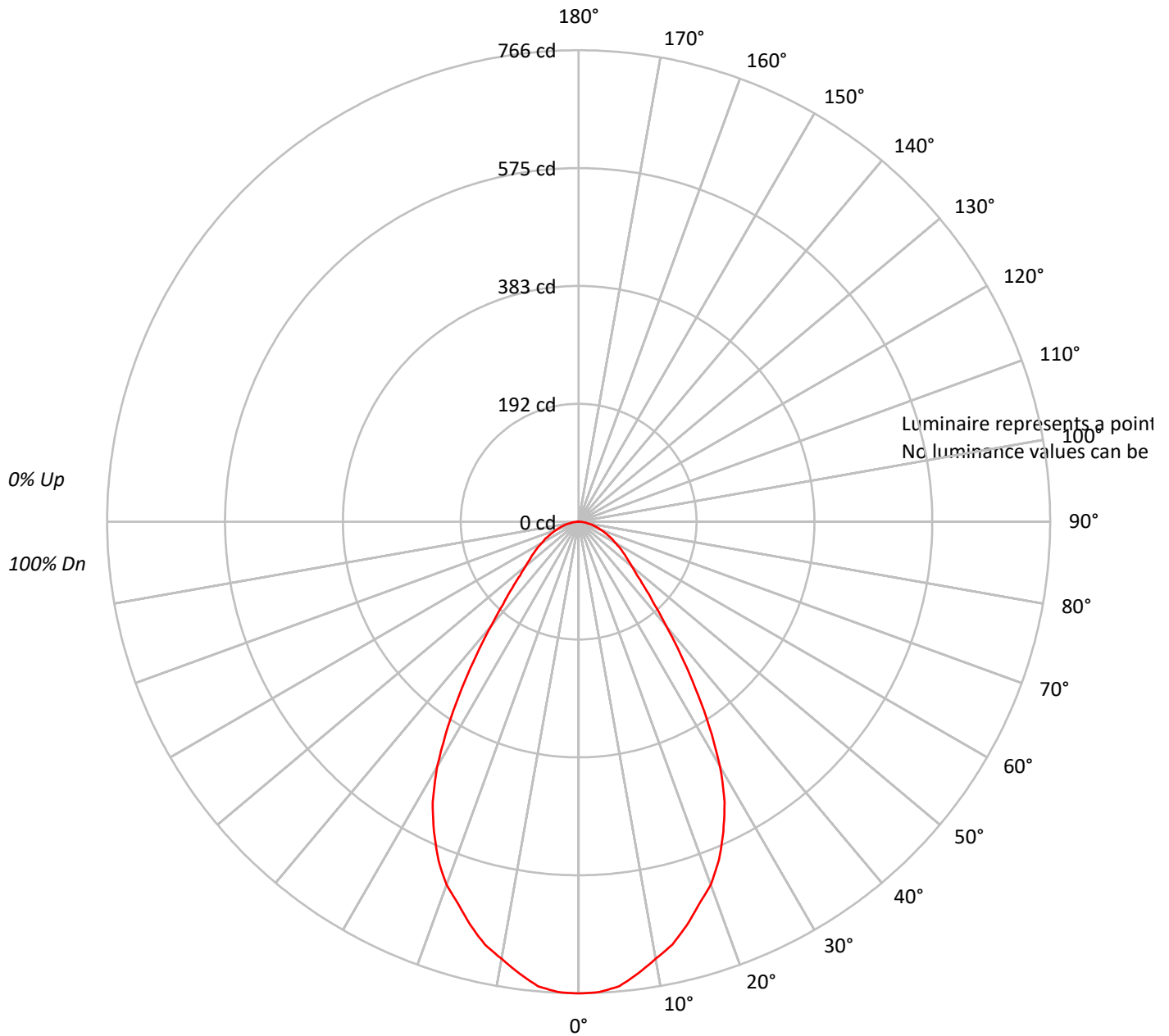
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	108	105	102		109	106	103	100		102	99	97		98	96	94		94	93	91
2	104	98	92	88		102	96	91	87		93	89	85		89	86	83		87	84	81
3	97	89	83	77		95	87	82	77		85	80	76		82	78	74		80	76	73
4	91	81	74	69		89	80	74	69		78	72	68		76	71	67		74	69	66
5	85	75	67	62		83	74	67	62		72	66	61		70	65	61		68	64	60
6	80	69	62	56		78	68	61	56		66	60	56		65	59	55		63	59	55
7	75	64	57	52		74	63	56	51		62	56	51		60	55	51		59	54	50
8	71	59	52	47		69	59	52	47		58	51	47		56	51	47		55	50	47
9	67	55	48	44		66	55	48	44		54	48	44		53	47	43		52	47	43
10	63	52	45	41		62	51	45	41		51	45	40		50	44	40		49	44	40

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	7.0
10°-20°	190.5	18.9
20°-30°	253.3	25.1
30°-40°	207.2	20.5
40°-50°	120.7	12.0
50°-60°	80.0	7.9
60°-70°	52.7	5.2
70°-80°	27.7	2.7
80°-90°	6.7	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°	514.8	51.0
0°-40°	722.0	71.5
0°-60°	922.7	91.4
0°-90°	1009.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1009.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	766	
5°	758	71
15°	679	190
25°	556	253
35°	331	207
45°	152	121
55°	89	80
65°	53	53
75°	26	28
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	766.5
2.5°	765.1
5°	757.8
7.5°	740.2
10°	721.2
12.5°	703.7
15°	678.8
17.5°	651.0
20°	627.6
22.5°	595.4
25°	555.9
27.5°	513.5
30°	459.4
32.5°	395.0
35°	330.6
37.5°	272.1
40°	220.9
42.5°	181.4
45°	152.2
47.5°	128.8
50°	112.6
52.5°	99.5
55°	89.2
57.5°	79.0
60°	68.8
62.5°	61.5
65°	52.7
67.5°	45.4
70°	38.0
72.5°	32.1
75°	26.3
77.5°	20.5
80°	14.6
82.5°	10.2
85°	5.8
87.5°	1.5
90°	0.0



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— 0°-180°







(END OF REPORT)