

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: P211650

Luminaire Tested: **LE_4B20D010 EC4B10208035 4LBM1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211650
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_4B20D010 EC4B10208035 4LBM1MW
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM DISTRIBUTION WITH MATTE WHITE TRIM
WATTAGE D010TR-21.86W DE010-20.46W D5LT-21.24W DMX-20.89W DL2-22.5W
DL3-21.8 6W DLE-22.46W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1884.1 lumens
Efficiency: N/A
Efficacy: 90.6 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

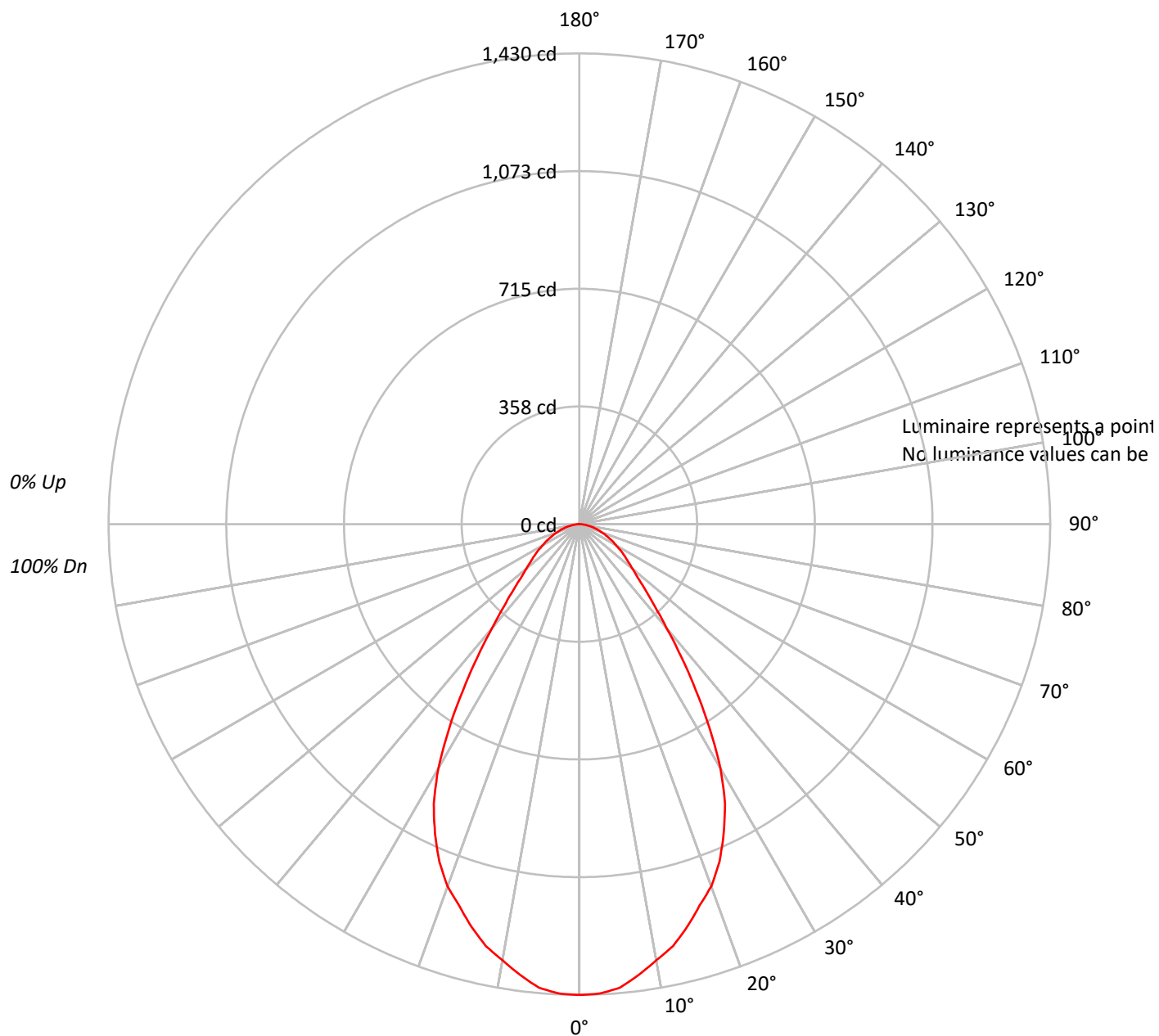
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





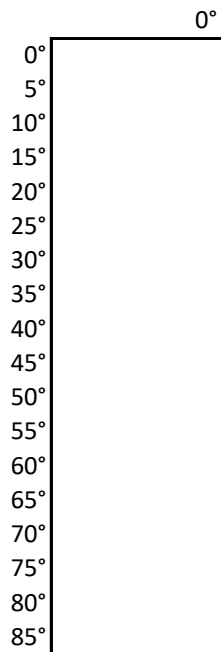
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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°	132.6	7.0
10°-20°	355.4	18.9
20°-30°	472.6	25.1
30°-40°	386.5	20.5
40°-50°	225.1	11.9
50°-60°	149.3	7.9
60°-70°	98.2	5.2
70°-80°	51.8	2.8
80°-90°	12.6	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°	960.5	51.0
0°-40°	1347.0	71.5
0°-60°	1721.5	91.4
0°-90°	1884.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1884.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1430	
5°	1414	133
15°	1266	355
25°	1037	473
35°	617	386
45°	284	225
55°	166	149
65°	98	98
75°	49	52
85°	11	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1430.3
2.5°	1427.5
5°	1413.8
7.5°	1381.1
10°	1345.6
12.5°	1312.9
15°	1266.5
17.5°	1214.6
20°	1170.9
22.5°	1110.9
25°	1037.2
27.5°	958.0
30°	857.0
32.5°	736.9
35°	616.9
37.5°	507.7
40°	412.1
42.5°	338.5
45°	283.9
47.5°	240.2
50°	210.2
52.5°	185.6
55°	166.5
57.5°	147.4
60°	128.3
62.5°	114.6
65°	98.3
67.5°	84.6
70°	71.0
72.5°	60.1
75°	49.2
77.5°	38.2
80°	27.3
82.5°	19.1
85°	10.9
87.5°	2.8
90°	0.0



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— 0°-180°







(END OF REPORT)