

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: P211687

Luminaire Tested: **LE_4B20D010 EC4B10209035 4LBPS1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211687
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 EC4B10209035 4LBPS1MW
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH PLASTIC 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: 2169.9 lumens
Efficiency: N/A
Efficacy: 104.3 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

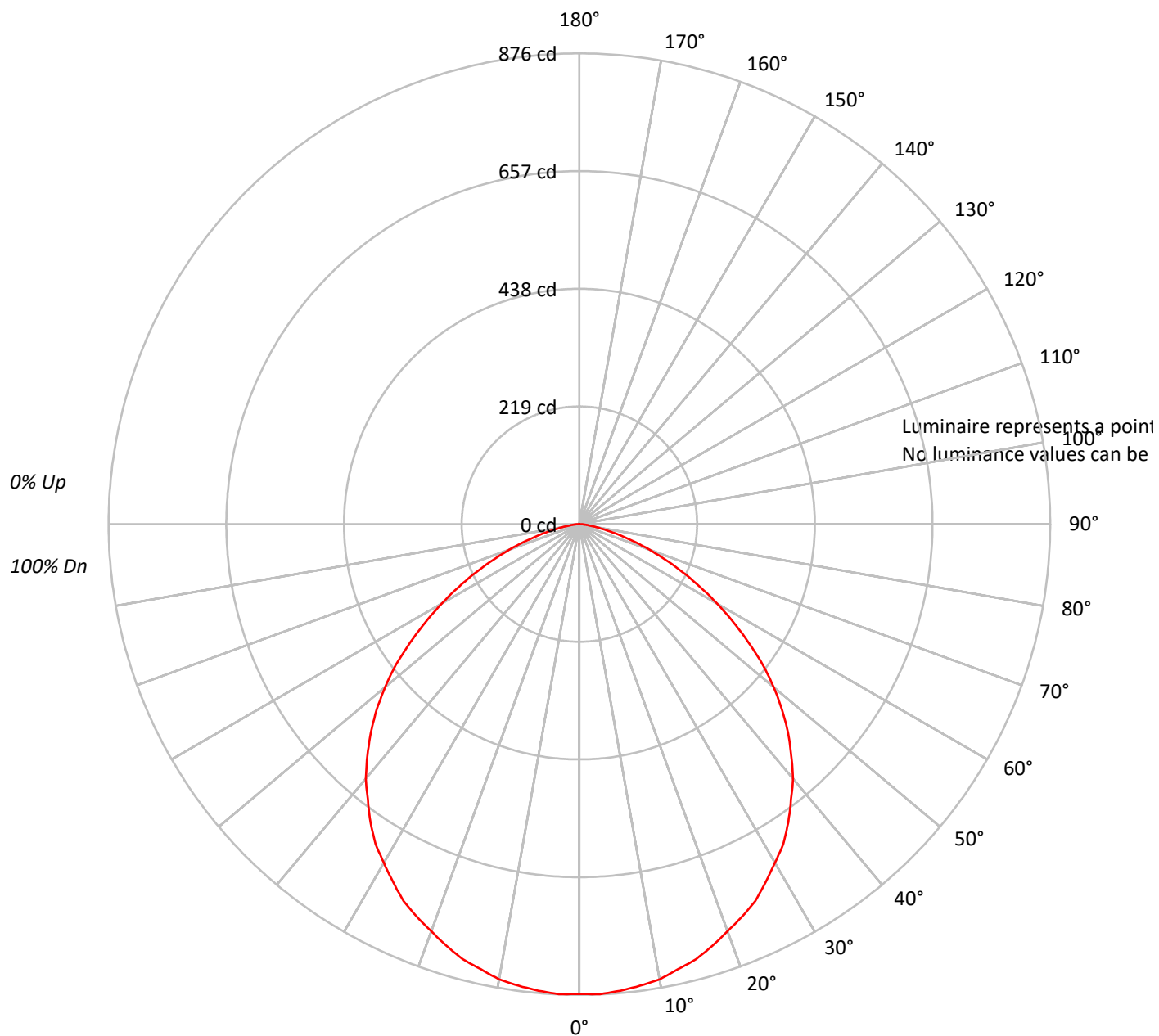
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	99	107	104	100	97	99	97	94		96	93	91		92
2	101	93	87	82	98	92	86	81	88	83	79		85	81	77		82
3	93	83	75	69	90	81	74	69	78	72	67		76	70	66		73
4	85	74	66	59	83	72	65	59	70	63	58		68	62	57		66
5	78	66	58	51	76	65	57	51	63	56	51		61	55	50		59
6	73	60	51	45	71	59	51	45	57	50	44		55	49	44		54
7	67	54	46	40	66	54	46	40	52	45	40		51	44	39		49
8	63	50	41	36	61	49	41	36	48	41	35		46	40	35		45
9	59	46	38	32	57	45	37	32	44	37	32		43	36	32		42
10	55	42	34	29	54	42	34	29	41	34	29		40	33	29		39

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	3.8
10°-20°	236.1	10.9
20°-30°	355.6	16.4
30°-40°	423.2	19.5
40°-50°	422.4	19.5
50°-60°	343.5	15.8
60°-70°	211.3	9.7
70°-80°	81.9	3.8
80°-90°	13.1	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°	674.6	31.1
0°-40°	1097.8	50.6
0°-60°	1863.6	85.9
0°-90°	2169.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2169.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	874	
5°	872	83
15°	838	236
25°	774	356
35°	678	423
45°	549	422
55°	384	343
65°	212	211
75°	75	82
85°	10	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	874.3
2.5°	875.6
5°	871.7
7.5°	866.5
10°	860.1
12.5°	848.5
15°	838.3
17.5°	822.9
20°	806.1
22.5°	790.7
25°	774.0
27.5°	750.9
30°	727.7
32.5°	705.9
35°	677.6
37.5°	646.7
40°	618.4
42.5°	583.7
45°	549.0
47.5°	511.7
50°	471.9
52.5°	430.7
55°	384.4
57.5°	339.4
60°	295.7
62.5°	253.2
65°	212.2
67.5°	173.5
70°	137.6
72.5°	104.2
75°	74.6
77.5°	48.8
80°	29.6
82.5°	18.0
85°	10.3
87.5°	5.1
90°	0.0



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— 0°-180°







(END OF REPORT)