

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: P211679

Luminaire Tested: **LE_4B20D010 EC4B10209035 4LBM1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211679
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 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: 1592.8 lumens
Efficiency: N/A
Efficacy: 76.6 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

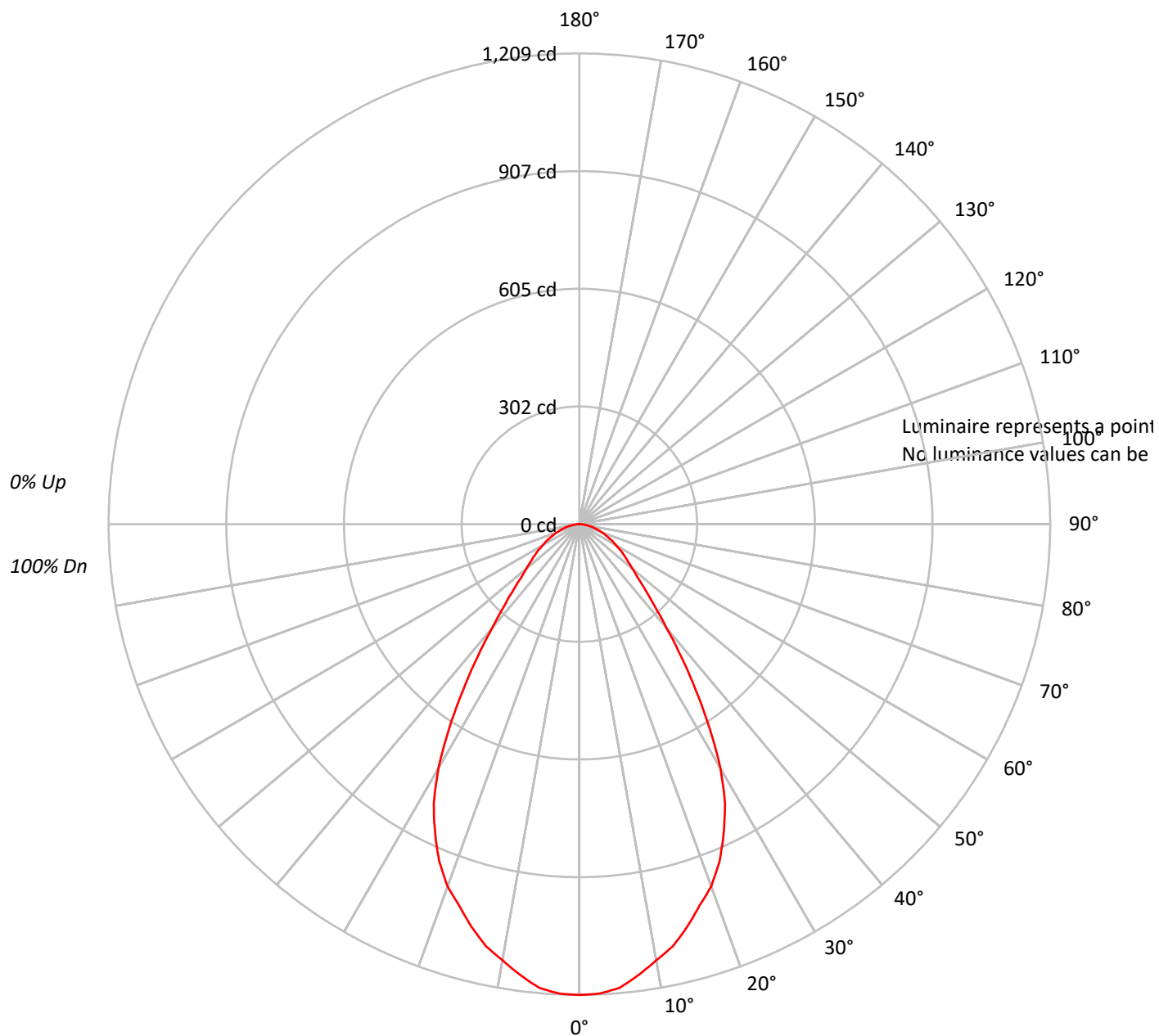
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	112.1	7.0
10°-20°	300.4	18.9
20°-30°	399.5	25.1
30°-40°	326.7	20.5
40°-50°	190.4	12.0
50°-60°	126.2	7.9
60°-70°	83.0	5.2
70°-80°	43.8	2.7
80°-90°	10.7	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°	812.0	51.0
0°-40°	1138.8	71.5
0°-60°	1455.3	91.4
0°-90°	1592.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1592.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1209	
5°	1195	112
15°	1071	300
25°	877	399
35°	522	327
45°	240	190
55°	141	126
65°	83	83
75°	42	44
85°	9	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1209.2
2.5°	1206.9
5°	1195.3
7.5°	1167.7
10°	1137.6
12.5°	1109.9
15°	1070.7
17.5°	1026.8
20°	989.9
22.5°	939.1
25°	876.8
27.5°	809.9
30°	724.5
32.5°	623.0
35°	521.5
37.5°	429.2
40°	348.5
42.5°	286.2
45°	240.0
47.5°	203.1
50°	177.7
52.5°	156.9
55°	140.7
57.5°	124.6
60°	108.5
62.5°	96.9
65°	83.1
67.5°	71.6
70°	60.0
72.5°	50.8
75°	41.5
77.5°	32.2
80°	23.1
82.5°	16.1
85°	9.3
87.5°	2.3
90°	0.0



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— 0°-180°







(END OF REPORT)