

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: P211670

Luminaire Tested: **LE_4B20D010 EC4B10208035 4LBW1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211670
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 4LBW1MW
Description: PORTFOLIO 4 INCH CYLINDER
WIDE 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: 2102.5 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

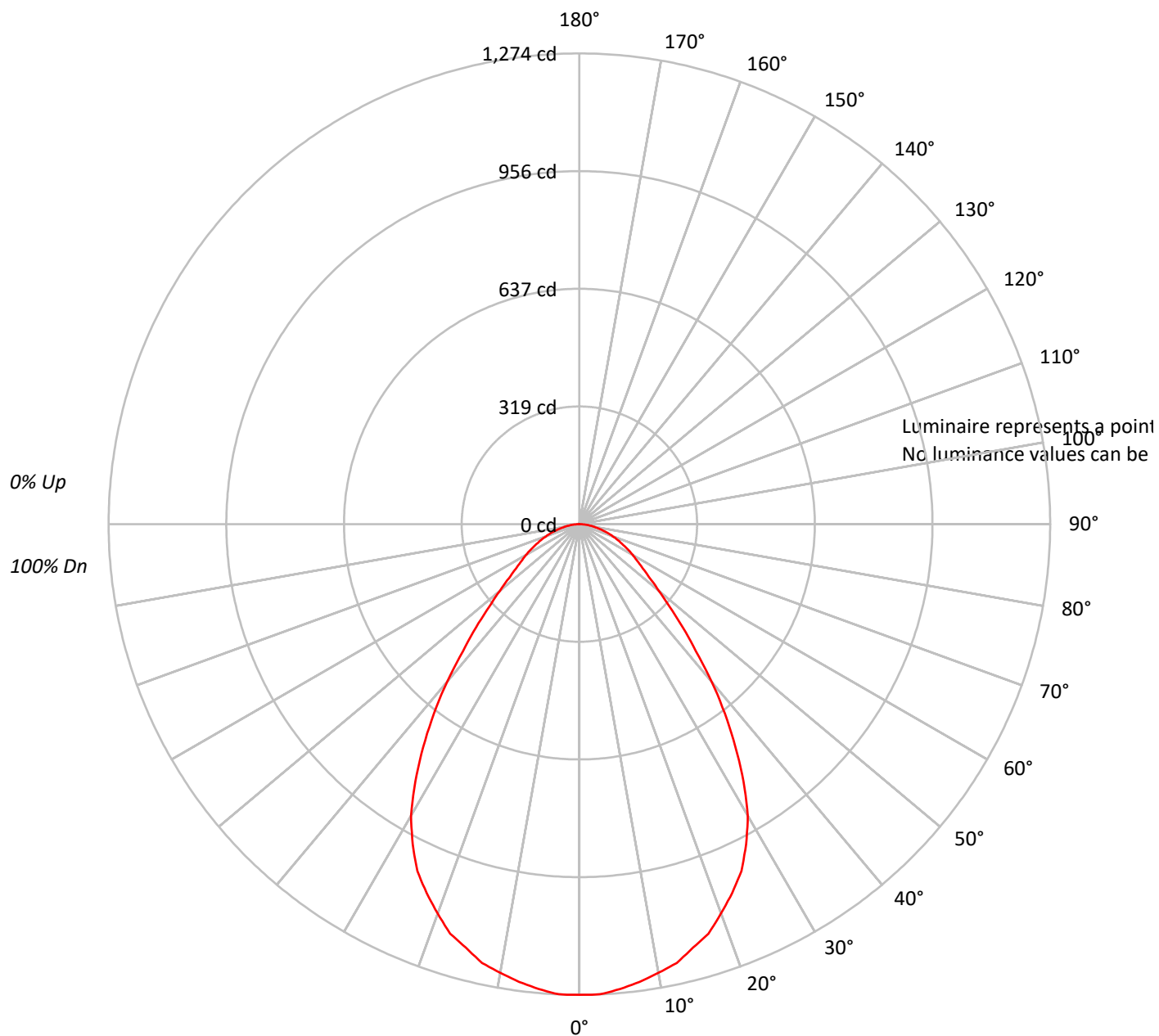
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





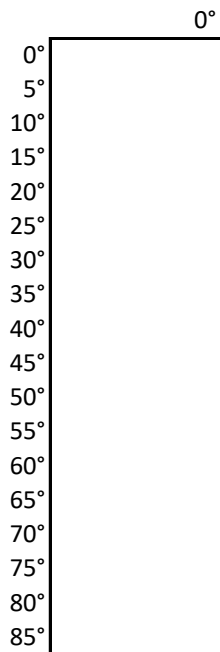
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	111	107	104	101	108	105	102	99	101	98	96		97	95	93		93
2	103	96	91	86	101	94	89	85	91	87	83		88	84	81		85
3	96	87	80	75	93	85	79	74	83	77	73		80	76	72		78
4	89	79	72	66	87	78	71	66	75	69	65		73	68	64		71
5	83	72	64	59	81	71	64	58	69	63	58		67	62	57		65
6	78	66	58	53	76	65	58	53	64	57	52		62	56	52		60
7	73	61	53	48	71	60	53	48	59	52	47		57	51	47		56
8	68	56	49	44	67	56	49	44	54	48	43		53	47	43		52
9	64	52	45	40	63	52	45	40	51	44	40		50	44	40		49
10	61	49	42	37	59	48	41	37	47	41	37		46	41	37		46

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.6	5.7
10°-20°	334.5	15.9
20°-30°	472.8	22.5
30°-40°	457.9	21.8
40°-50°	309.0	14.7
50°-60°	191.8	9.1
60°-70°	128.2	6.1
70°-80°	70.1	3.3
80°-90°	18.6	0.9
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°	926.9	44.1
0°-40°	1384.8	65.9
0°-60°	1885.7	89.7
0°-90°	2102.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2102.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1274	
5°	1263	120
15°	1187	335
25°	1037	473
35°	737	458
45°	396	309
55°	210	192
65°	128	128
75°	65	70
85°	16	19
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1274.0
2.5°	1274.0
5°	1263.1
7.5°	1249.6
10°	1233.1
12.5°	1216.7
15°	1186.8
17.5°	1162.2
20°	1121.3
22.5°	1080.3
25°	1036.7
27.5°	976.7
30°	911.2
32.5°	826.6
35°	736.6
37.5°	646.6
40°	556.6
42.5°	466.6
45°	395.6
47.5°	330.1
50°	281.0
52.5°	240.1
55°	210.1
57.5°	185.5
60°	166.5
62.5°	147.3
65°	128.2
67.5°	111.8
70°	95.5
72.5°	81.9
75°	65.4
77.5°	51.9
80°	38.2
82.5°	27.3
85°	16.4
87.5°	5.5
90°	0.0



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— 0°-180°







(END OF REPORT)