

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: P211447

Luminaire Tested: **LE_4B20D010 EC4B10209024 4LBM1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211447
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 EC4B10209024 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: 1328.4 lumens
Efficiency: N/A
Efficacy: 63.9 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

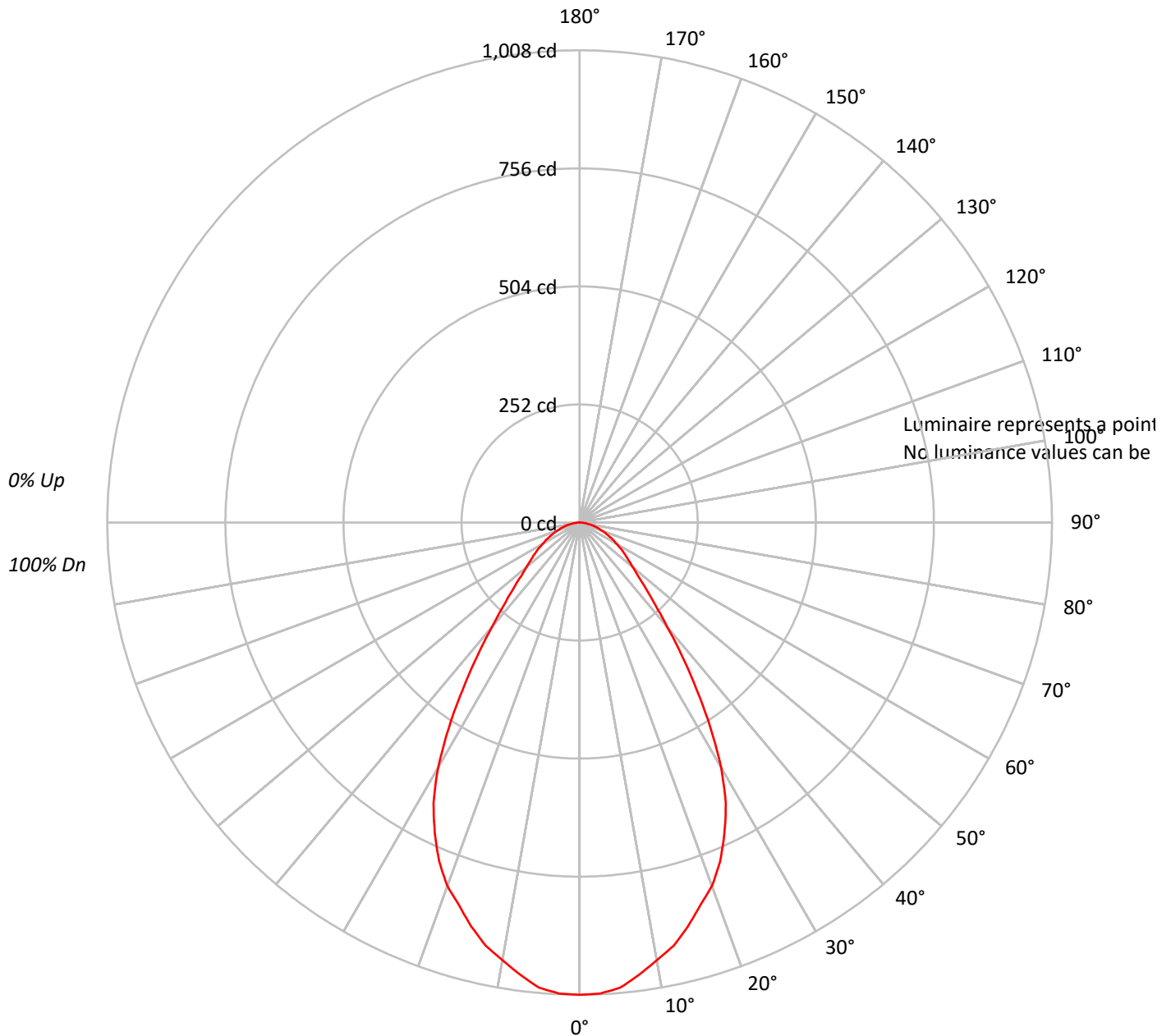
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	93.5	7.0
10°-20°	250.6	18.9
20°-30°	333.2	25.1
30°-40°	272.5	20.5
40°-50°	158.7	11.9
50°-60°	105.2	7.9
60°-70°	69.2	5.2
70°-80°	36.5	2.7
80°-90°	8.9	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°	677.2	51.0
0°-40°	949.7	71.5
0°-60°	1213.7	91.4
0°-90°	1328.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1328.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1008	
5°	997	93
15°	893	251
25°	731	333
35°	435	273
45°	200	159
55°	117	105
65°	69	69
75°	35	37
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1008.4
2.5°	1006.4
5°	996.8
7.5°	973.7
10°	948.6
12.5°	925.6
15°	892.9
17.5°	856.3
20°	825.6
22.5°	783.2
25°	731.3
27.5°	675.5
30°	604.2
32.5°	519.6
35°	434.9
37.5°	358.0
40°	290.6
42.5°	238.6
45°	200.1
47.5°	169.4
50°	148.1
52.5°	130.8
55°	117.4
57.5°	103.9
60°	90.5
62.5°	80.9
65°	69.3
67.5°	59.6
70°	50.0
72.5°	42.3
75°	34.7
77.5°	26.9
80°	19.3
82.5°	13.5
85°	7.7
87.5°	2.0
90°	0.0



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— 0°-180°







(END OF REPORT)