

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: P211448

Luminaire Tested: **LE_4B20D010 EC4B10209024 4LBM1WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211448
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 4LBM1WH
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM DISTRIBUTION WITH WHEAT 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: 1303.3 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.87
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

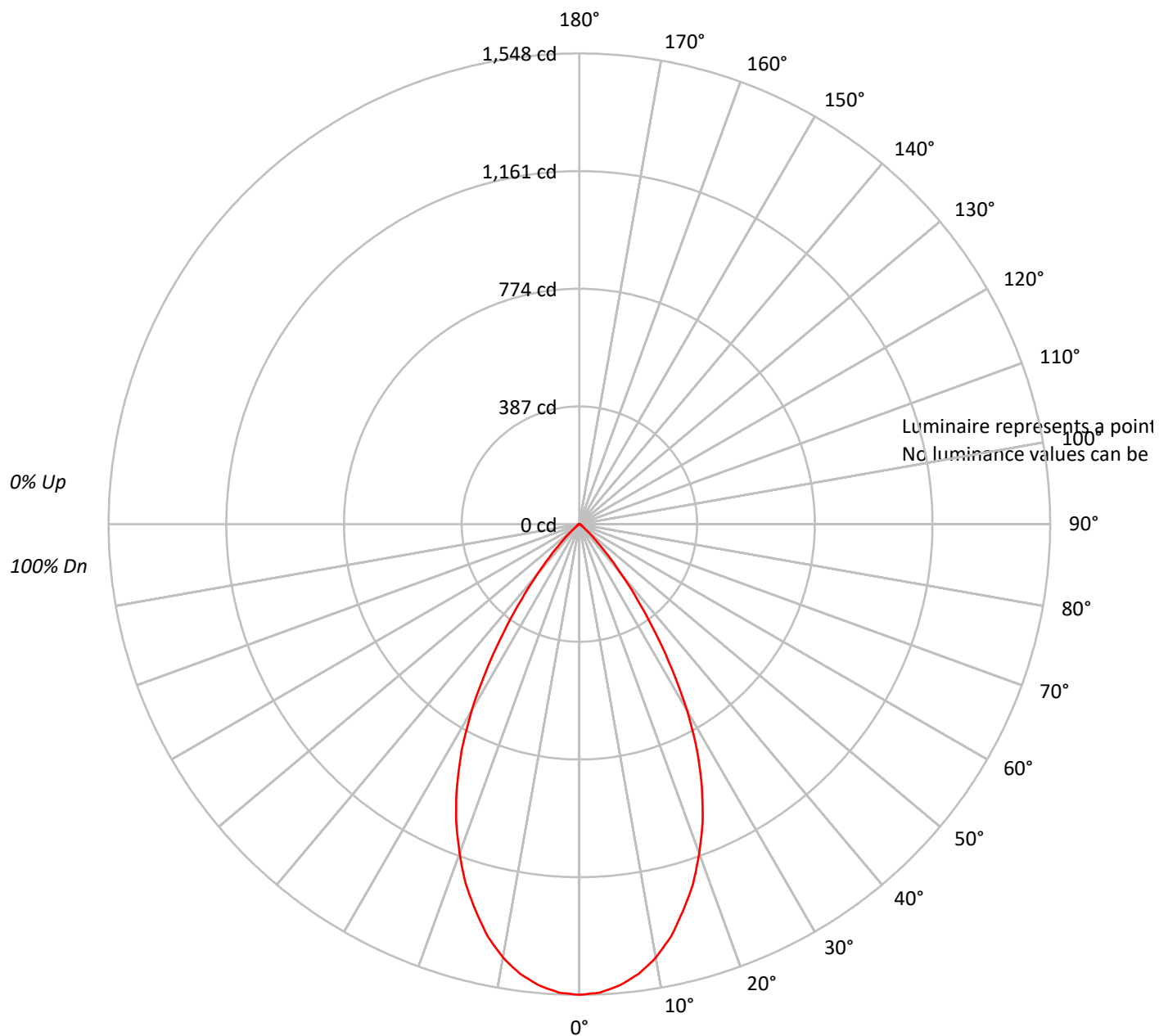
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211448

CATALOG NUMBER: LE_4B20D010 EC4B10209024 4LBM1WH

Luminous Intensity Polar Plot





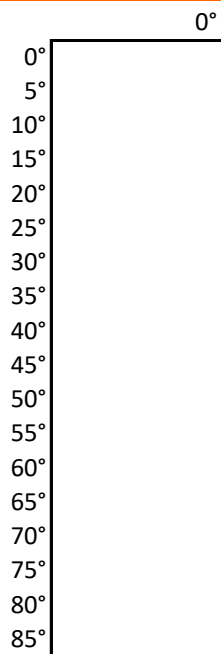
TEST NUMBER: P211448

CATALOG NUMBER: LE_4B20D010 EC4B10209024 4LBM1WH

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	114	111	108	106	111	109	106	105	105	103	101		101	100	98		98
2	108	103	99	96	106	102	98	95	98	95	93		95	93	91		93
3	103	96	91	88	101	95	90	87	92	89	85		90	87	84		88
4	98	90	85	81	96	89	84	80	87	83	79		85	81	78		83
5	93	84	79	74	91	84	78	74	82	77	73		80	76	73		79
6	88	79	73	69	87	79	73	69	77	72	68		76	71	68		74
7	84	75	69	65	82	74	68	64	73	68	64		72	67	64		70
8	80	70	64	60	79	70	64	60	69	64	60		68	63	60		67
9	76	66	61	57	75	66	60	57	65	60	56		64	60	56		63
10	73	63	57	53	72	62	57	53	62	57	53		61	56	53		60

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211448

CATALOG NUMBER: LE_4B20D010 EC4B10209024 4LBM1WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	11.0
10°-20°	367.6	28.2
20°-30°	431.3	33.1
30°-40°	272.9	20.9
40°-50°	73.1	5.6
50°-60°	10.2	0.8
60°-70°	3.8	0.3
70°-80°	1.3	0.1
80°-90°	0.0	0.0
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°	941.9	72.3
0°-40°	1214.9	93.2
0°-60°	1298.2	99.6
0°-90°	1303.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1303.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1548	
5°	1523	143
15°	1317	368
25°	953	431
35°	433	273
45°	83	73
55°	10	10
65°	4	4
75°	2	1
85°	0	0
90°	0	



TEST NUMBER: P211448

CATALOG NUMBER: LE_4B20D010 EC4B10209024 4LBM1WH

CANDELA DISTRIBUTION (FULL):

0°	
0°	1547.8
2.5°	1542.1
5°	1522.8
7.5°	1492.0
10°	1447.7
12.5°	1389.9
15°	1316.8
17.5°	1241.8
20°	1151.3
22.5°	1058.8
25°	952.9
27.5°	837.4
30°	708.4
32.5°	567.9
35°	433.1
37.5°	313.8
40°	215.6
42.5°	138.6
45°	82.8
47.5°	46.2
50°	25.1
52.5°	13.5
55°	9.6
57.5°	7.7
60°	5.8
62.5°	5.8
65°	3.8
67.5°	2.0
70°	2.0
72.5°	2.0
75°	2.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)