

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: P211578

Luminaire Tested: **LE_4B20D010 EC4B10208030 4LBS1WMH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211578
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 EC4B10208030 4LBS1WMH
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH WARM HAZE 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: 2339.1 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 0.99 / 1.08
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

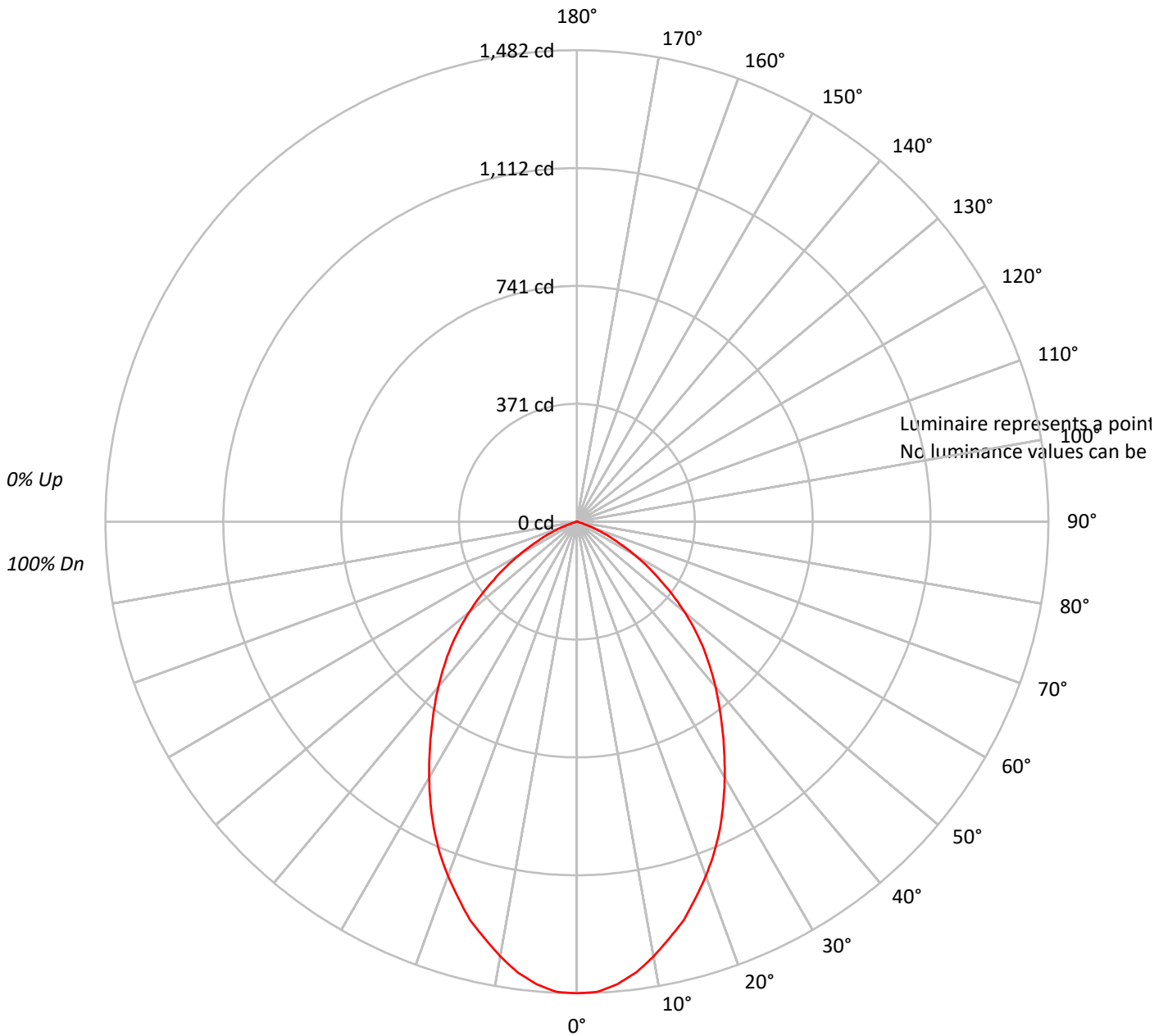
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211578

CATALOG NUMBER: LE_4B20D010 EC4B10208030 4LBS1WMH

Luminous Intensity Polar Plot





TEST NUMBER: P211578

CATALOG NUMBER: LE_4B20D010 EC4B10208030 4LBS1WMH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	96	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	83	73	65	59	82	72	64	59	70	63	59	68	62	58	66	61	57	56
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	50	44	40	49	44	39	49	43	39	38
10	60	48	41	37	59	48	41	37	47	41	36	46	40	36	45	40	36	35

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211578

CATALOG NUMBER: LE_4B20D010 EC4B10208030 4LBS1WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	5.9
10°-20°	363.1	15.5
20°-30°	487.7	20.8
30°-40°	499.2	21.3
40°-50°	432.1	18.5
50°-60°	287.4	12.3
60°-70°	118.1	5.0
70°-80°	14.0	0.6
80°-90°	0.6	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°	987.8	42.2
0°-40°	1487.0	63.6
0°-60°	2206.4	94.3
0°-90°	2339.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2339.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1482	
5°	1460	137
15°	1297	363
25°	1064	488
35°	797	499
45°	563	432
55°	319	287
65°	116	118
75°	6	14
85°	0	1
90°	0	



TEST NUMBER: P211578

CATALOG NUMBER: LE_4B20D010 EC4B10208030 4LBS1WMH

CANDELA DISTRIBUTION (FULL):

	0°
0°	1482.5
2.5°	1479.5
5°	1459.5
7.5°	1428.9
10°	1387.5
12.5°	1341.4
15°	1297.0
17.5°	1240.3
20°	1185.1
22.5°	1126.8
25°	1064.0
27.5°	996.6
30°	929.0
32.5°	861.6
35°	797.3
37.5°	735.9
40°	677.7
42.5°	619.3
45°	562.6
47.5°	502.9
50°	441.5
52.5°	380.2
55°	318.9
57.5°	265.2
60°	210.1
62.5°	159.5
65°	116.5
67.5°	76.7
70°	44.4
72.5°	21.5
75°	6.1
77.5°	3.0
80°	1.5
82.5°	1.5
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)