

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: P211020

Luminaire Tested: **LE_4B10D010 EC4B10208050 4LBPS1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211020
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_4B10D010 EC4B10208050 4LBPS1MW
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH PLASTIC MATTE WHITE TRIM
WATTAGE D010TR-10.05W DE010-10.58W D5LT-10.2W DMX-10.6W DL2-11.8W
DL3-11.1W DLE-11.39W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1375.7 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

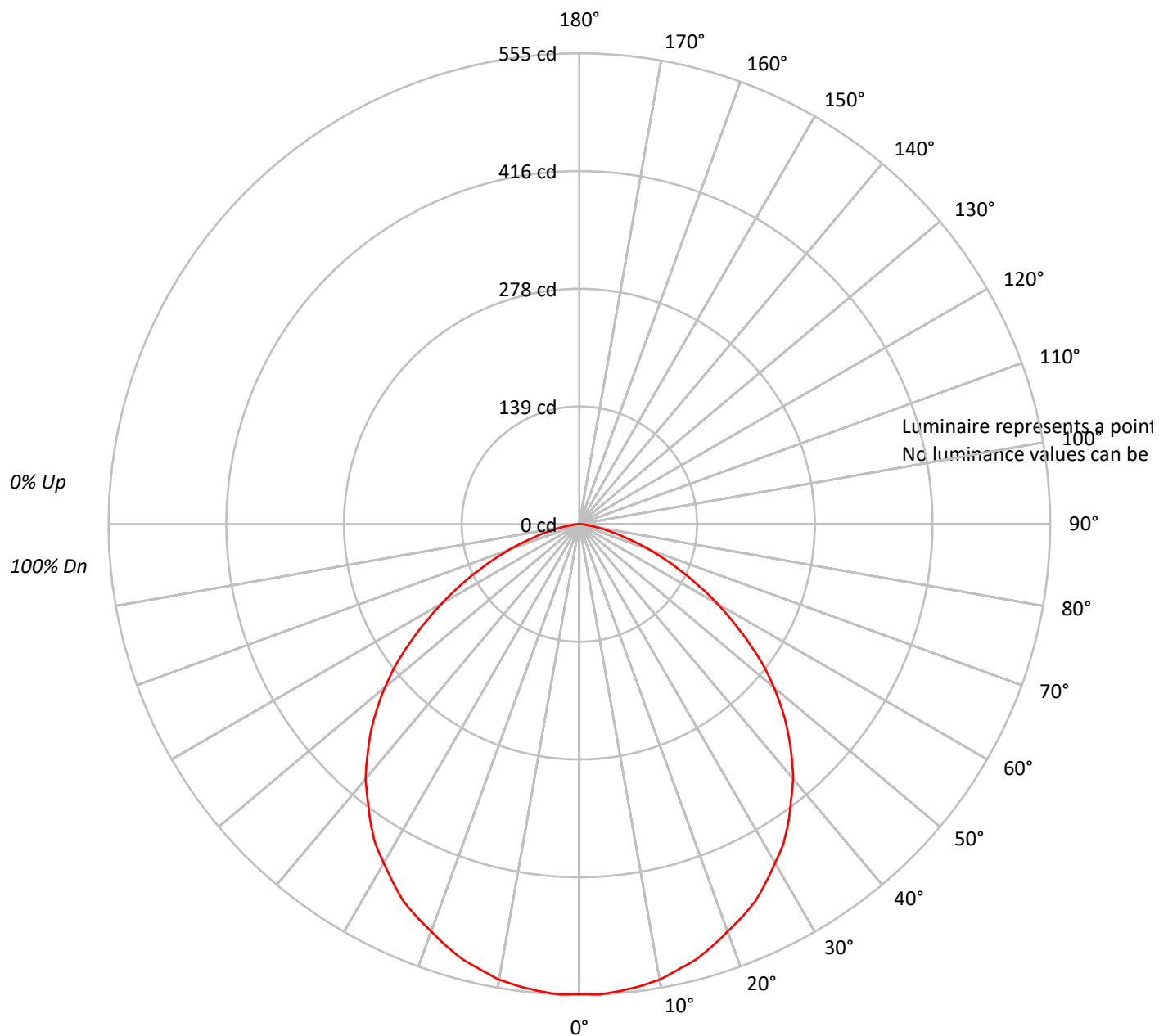
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211020

CATALOG NUMBER: LE_4B10D010 EC4B10208050 4LBPS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P211020

CATALOG NUMBER: LE_4B10D010 EC4B10208050 4LBPS1MW

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	110	106	102	99	107	104	100	97	99	97	94		96	93	91		92
2	101	93	87	82	98	92	86	81	88	83	79		85	81	77		82
3	93	83	75	69	90	81	74	69	78	72	67		76	70	66		73
4	85	74	66	59	83	72	65	59	70	63	58		68	62	57		66
5	78	66	58	51	76	65	57	51	63	56	51		61	55	50		59
6	73	60	51	45	71	59	51	45	57	50	44		55	49	44		54
7	67	54	46	40	66	54	46	40	52	45	40		51	44	39		49
8	63	50	41	36	61	49	41	36	48	41	35		46	40	35		45
9	59	46	38	32	57	45	37	32	44	37	32		43	36	32		42
10	55	42	34	29	54	42	34	29	41	34	29		40	33	29		39

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211020

CATALOG NUMBER: LE_4B10D010 EC4B10208050 4LBPS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	3.8
10°-20°	149.7	10.9
20°-30°	225.5	16.4
30°-40°	268.2	19.5
40°-50°	267.8	19.5
50°-60°	217.8	15.8
60°-70°	134.0	9.7
70°-80°	51.9	3.8
80°-90°	8.3	0.6
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°	427.7	31.1
0°-40°	695.9	50.6
0°-60°	1181.5	85.9
0°-90°	1375.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1375.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	554	
5°	553	53
15°	531	150
25°	491	225
35°	430	268
45°	348	268
55°	244	218
65°	134	134
75°	47	52
85°	6	8
90°	0	



TEST NUMBER: P211020

CATALOG NUMBER: LE_4B10D010 EC4B10208050 4LBPS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	554.2
2.5°	555.1
5°	552.6
7.5°	549.4
10°	545.3
12.5°	538.0
15°	531.4
17.5°	521.7
20°	511.1
22.5°	501.2
25°	490.7
27.5°	476.1
30°	461.3
32.5°	447.5
35°	429.5
37.5°	409.9
40°	392.1
42.5°	370.0
45°	348.0
47.5°	324.5
50°	299.2
52.5°	273.1
55°	243.7
57.5°	215.2
60°	187.5
62.5°	160.5
65°	134.4
67.5°	110.1
70°	87.2
72.5°	66.0
75°	47.3
77.5°	31.0
80°	18.8
82.5°	11.4
85°	6.5
87.5°	3.2
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)