

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: P211771

Luminaire Tested: **LE_4B20D010 EC4B10208050 4LBN1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211771
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 EC4B10208050 4LBN1LI
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH SPECULAR CLEAR 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

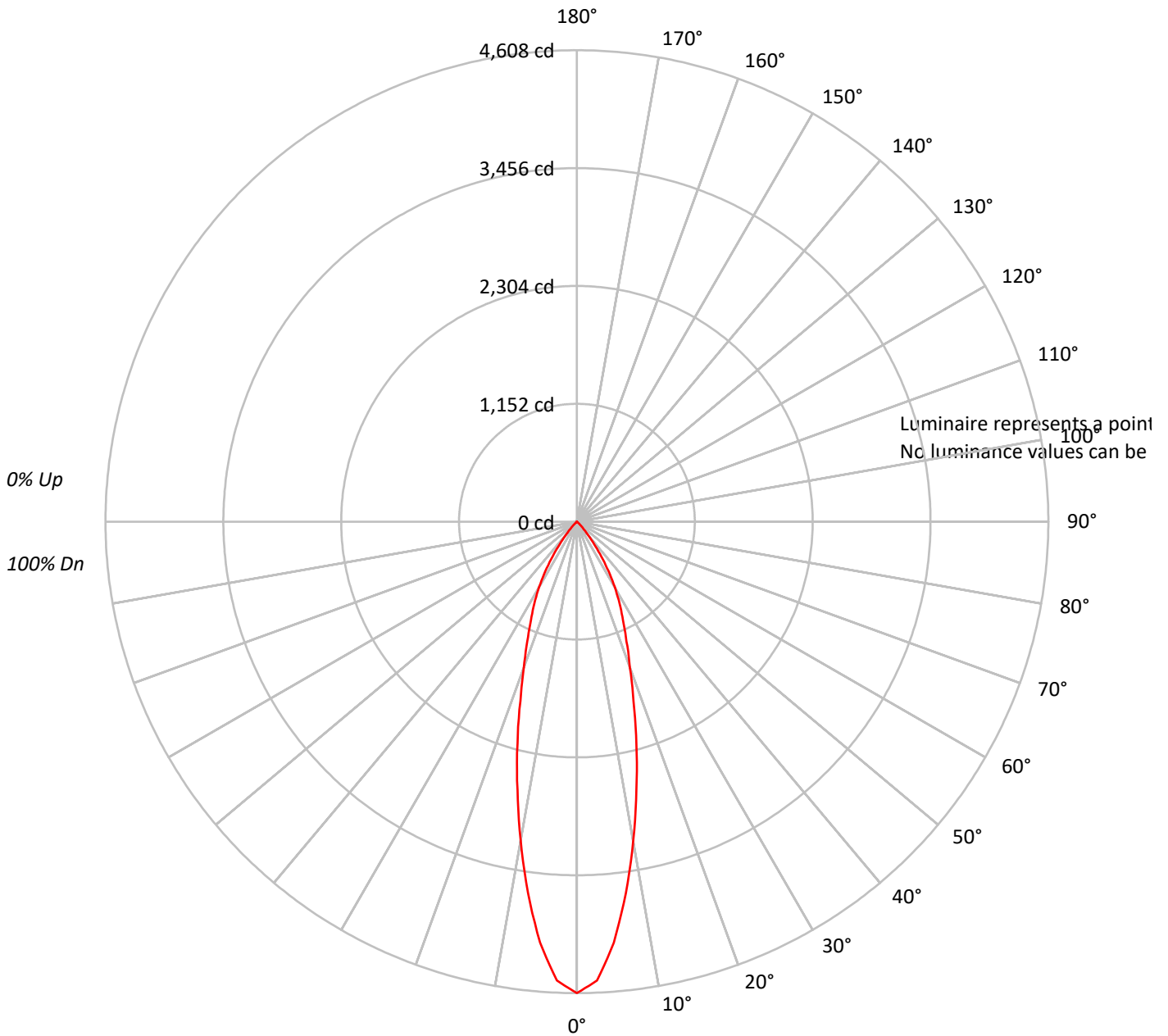
Lumens per Lamp: N/A
Luminaire Lumens: 1790.5 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

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: P211771
CATALOG NUMBER: LE_4B20D010 EC4B10208050 4LBN1LI

Luminous Intensity Polar Plot





TEST NUMBER: P211771

CATALOG NUMBER: LE_4B20D010 EC4B10208050 4LBN1LI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	95
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	92	90	90	90	90
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85	85	85	85
4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	82	81	81	81	81
5	96	89	84	80	95	88	84	80	87	82	79	85	81	79	83	80	78	77	77	77	77
6	92	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73	73	73	73
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	69	69	69	69
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66	66	66	66
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	64	63	63	63	63
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61	61	61	61

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211771

CATALOG NUMBER: LE_4B20D010 EC4B10208050 4LBN1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.1	20.3
10°-20°	621.6	34.7
20°-30°	494.1	27.6
30°-40°	261.5	14.6
40°-50°	45.1	2.5
50°-60°	3.4	0.2
60°-70°	1.7	0.1
70°-80°	0.0	0.0
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°	1478.8	82.6
0°-40°	1740.3	97.2
0°-60°	1788.8	99.9
0°-90°	1790.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1790.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4608	
5°	4131	363
15°	2247	622
25°	1064	494
35°	414	262
45°	47	45
55°	3	3
65°	3	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P211771

CATALOG NUMBER: LE_4B20D010 EC4B10208050 4LBN1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	4607.6
2.5°	4489.1
5°	4130.6
7.5°	3661.9
10°	3165.5
12.5°	2685.7
15°	2247.3
17.5°	1839.2
20°	1513.8
22.5°	1265.7
25°	1064.4
27.5°	901.7
30°	739.0
32.5°	573.5
35°	413.7
37.5°	272.9
40°	162.6
42.5°	93.7
45°	46.9
47.5°	16.6
50°	5.6
52.5°	5.6
55°	2.8
57.5°	2.8
60°	2.8
62.5°	2.8
65°	2.8
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
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)