

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: P211458

Luminaire Tested: **LE_4B20D010 EC4B10209024 4LBS1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211458
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 4LBS1H
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH SEMI-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: 1666.9 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

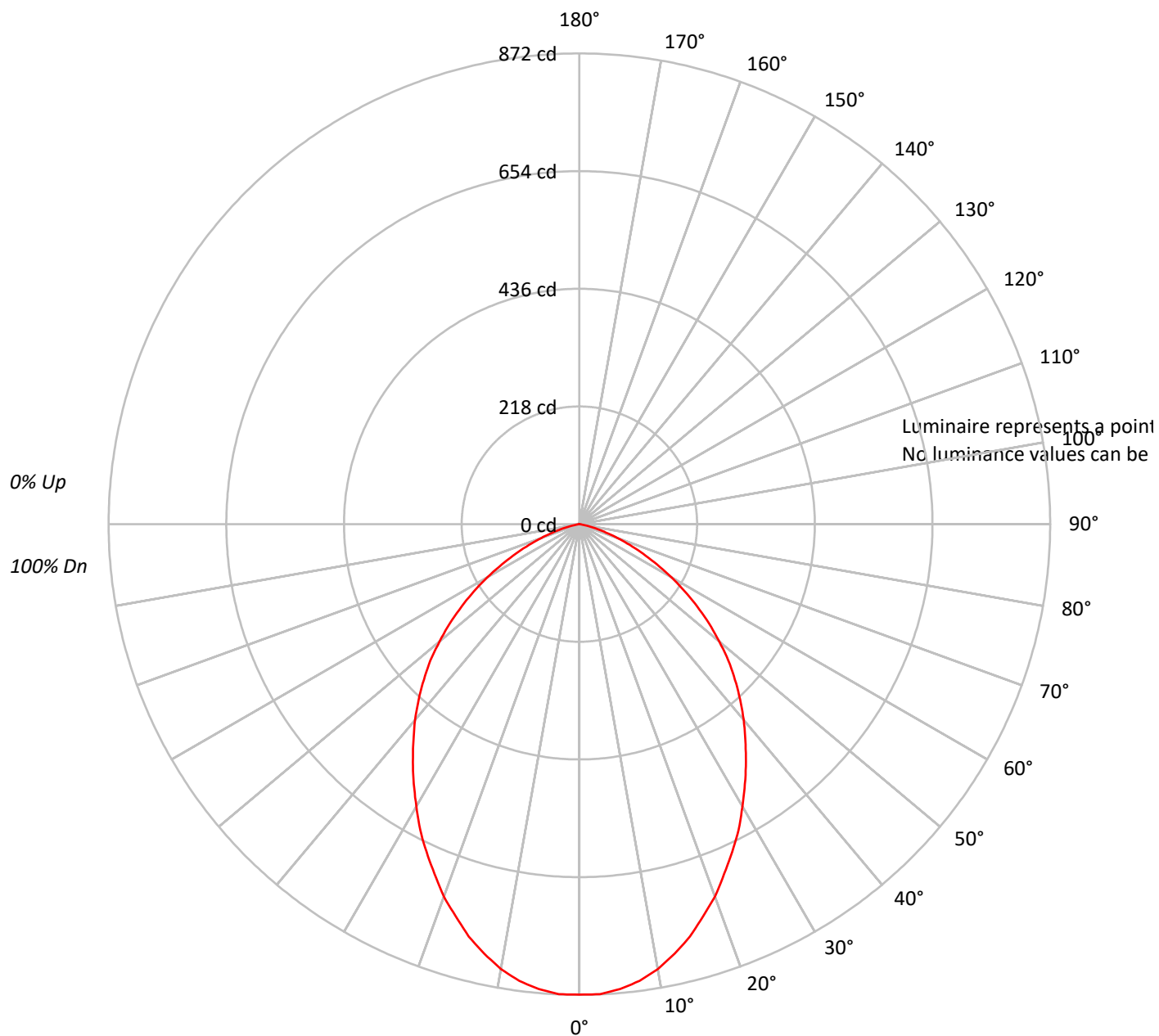
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211458

CATALOG NUMBER: LE_4B20D010 EC4B10209024 4LBS1H

Luminous Intensity Polar Plot





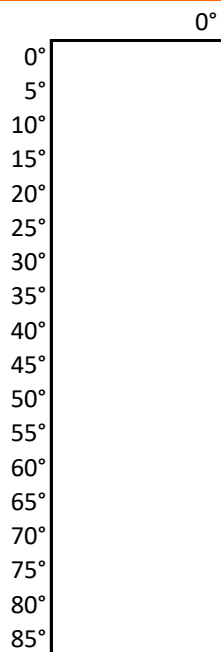
TEST NUMBER: P211458

CATALOG NUMBER: LE_4B20D010 EC4B10209024 4LBS1H

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	102	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	79	77		
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67		
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58		
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51		
6	75	63	55	49	73	62	54	49	60	54	49	59	53	48	57	52	48	46		
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41		
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37		
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34		
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31		

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211458

CATALOG NUMBER: LE_4B20D010 EC4B10209024 4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.7	4.9
10°-20°	222.0	13.3
20°-30°	308.2	18.5
30°-40°	336.3	20.2
40°-50°	313.8	18.8
50°-60°	238.2	14.3
60°-70°	130.4	7.8
70°-80°	35.9	2.2
80°-90°	0.5	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°	611.8	36.7
0°-40°	948.2	56.9
0°-60°	1500.1	90.0
0°-90°	1666.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1666.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	872	
5°	864	82
15°	791	222
25°	670	308
35°	538	336
45°	407	314
55°	266	238
65°	130	130
75°	31	36
85°	0	1
90°	0	



TEST NUMBER: P211458

CATALOG NUMBER: LE_4B20D010 EC4B10209024 4LBS1H

CANDELA DISTRIBUTION (FULL):

0°	
0°	871.7
2.5°	871.7
5°	864.4
7.5°	853.4
10°	836.9
12.5°	814.9
15°	791.0
17.5°	761.7
20°	734.2
22.5°	701.1
25°	669.9
27.5°	638.7
30°	603.8
32.5°	570.7
35°	537.8
37.5°	504.7
40°	473.5
42.5°	440.5
45°	407.4
47.5°	374.4
50°	337.7
52.5°	302.9
55°	266.1
57.5°	231.3
60°	196.4
62.5°	161.5
65°	130.3
67.5°	100.9
70°	75.3
72.5°	51.4
75°	31.2
77.5°	14.7
80°	3.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)