

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: P211654

Luminaire Tested: **LE_4B20D010 EC4B10208035 4LBN1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211654
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 EC4B10208035 4LBN1H
Description: PORTFOLIO 4 INCH CYLINDER
NARROW 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: 1504.4 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

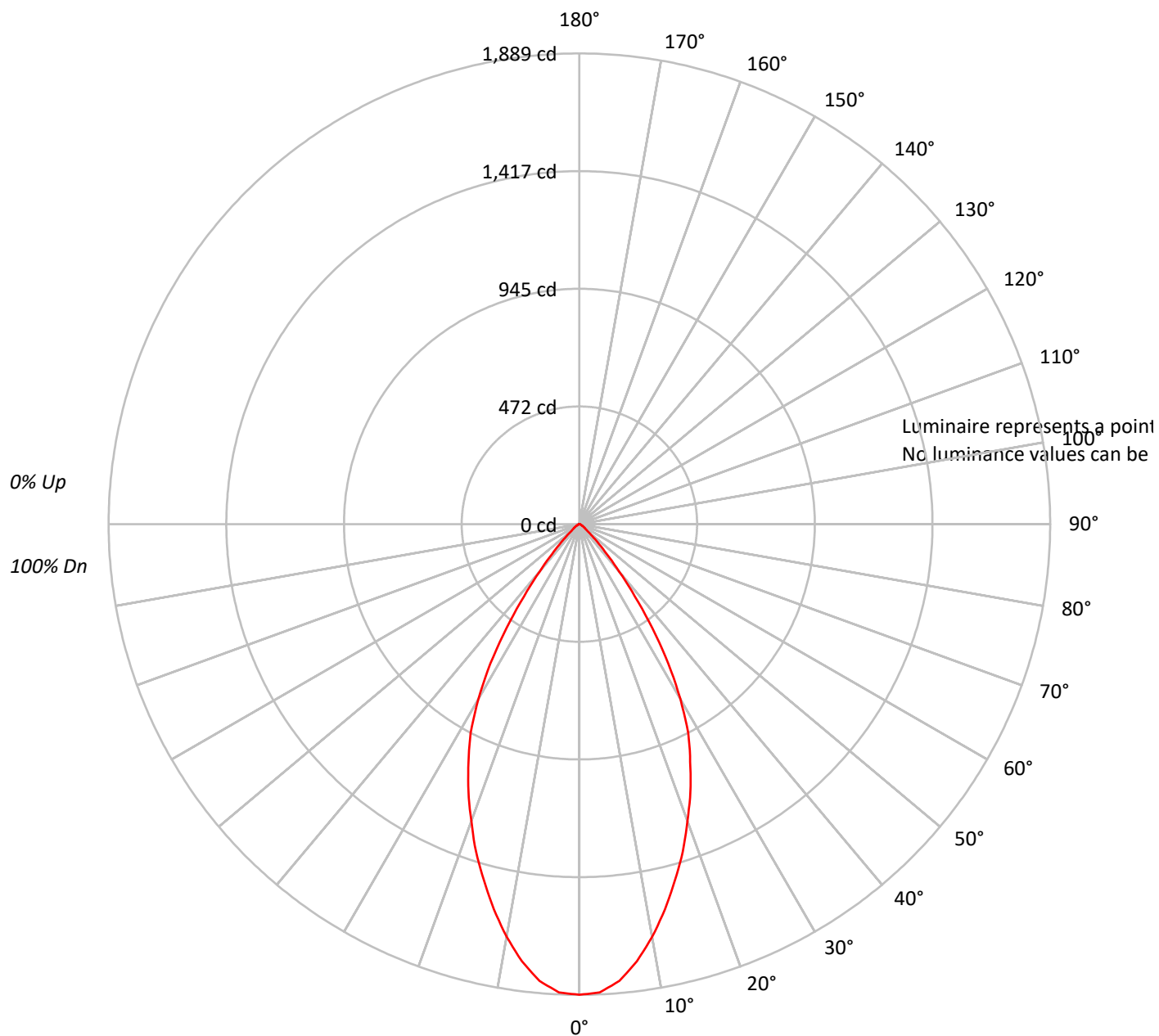
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





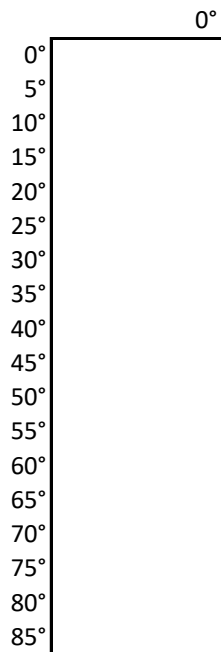
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	113	111	108	106	111	109	106	104	105	103	101		101	99	98		97
2	108	103	99	96	106	101	98	94	98	95	92		95	93	90		92
3	102	96	91	87	100	95	90	86	92	88	85		90	86	84		87
4	97	90	84	80	95	89	83	79	86	82	78		84	81	78		83
5	92	84	78	74	91	83	78	73	81	76	73		80	75	72		78
6	88	79	73	69	86	78	72	68	77	72	68		75	71	67		74
7	83	74	68	64	82	73	68	64	72	67	63		71	66	63		70
8	79	70	64	60	78	69	64	60	68	63	59		67	63	59		66
9	76	66	60	56	74	65	60	56	65	59	56		64	59	56		63
10	72	62	57	53	71	62	56	53	61	56	53		60	56	52		60

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.4	11.3
10°-20°	413.4	27.5
20°-30°	480.0	31.9
30°-40°	317.9	21.1
40°-50°	89.1	5.9
50°-60°	22.3	1.5
60°-70°	8.4	0.6
70°-80°	2.9	0.2
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°	1063.8	70.7
0°-40°	1381.7	91.8
0°-60°	1493.1	99.3
0°-90°	1504.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1504.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1889	
5°	1840	170
15°	1480	413
25°	1052	480
35°	510	318
45°	104	89
55°	24	22
65°	8	8
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1888.9
2.5°	1880.8
5°	1839.9
7.5°	1769.0
10°	1681.8
12.5°	1583.6
15°	1480.0
17.5°	1379.2
20°	1267.5
22.5°	1163.9
25°	1052.1
27.5°	945.9
30°	809.6
32.5°	665.1
35°	509.7
37.5°	365.3
40°	248.0
42.5°	160.8
45°	103.6
47.5°	62.6
50°	40.8
52.5°	29.9
55°	24.5
57.5°	19.0
60°	13.6
62.5°	10.9
65°	8.1
67.5°	5.5
70°	5.5
72.5°	2.7
75°	2.7
77.5°	2.7
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)