

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: P211816

Luminaire Tested: **LE_4B20D010 EC4B10209050 4LBW1WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211816
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 EC4B10209050 4LBW1WH
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTION WITH WHEAT 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: 1776.3 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.16
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

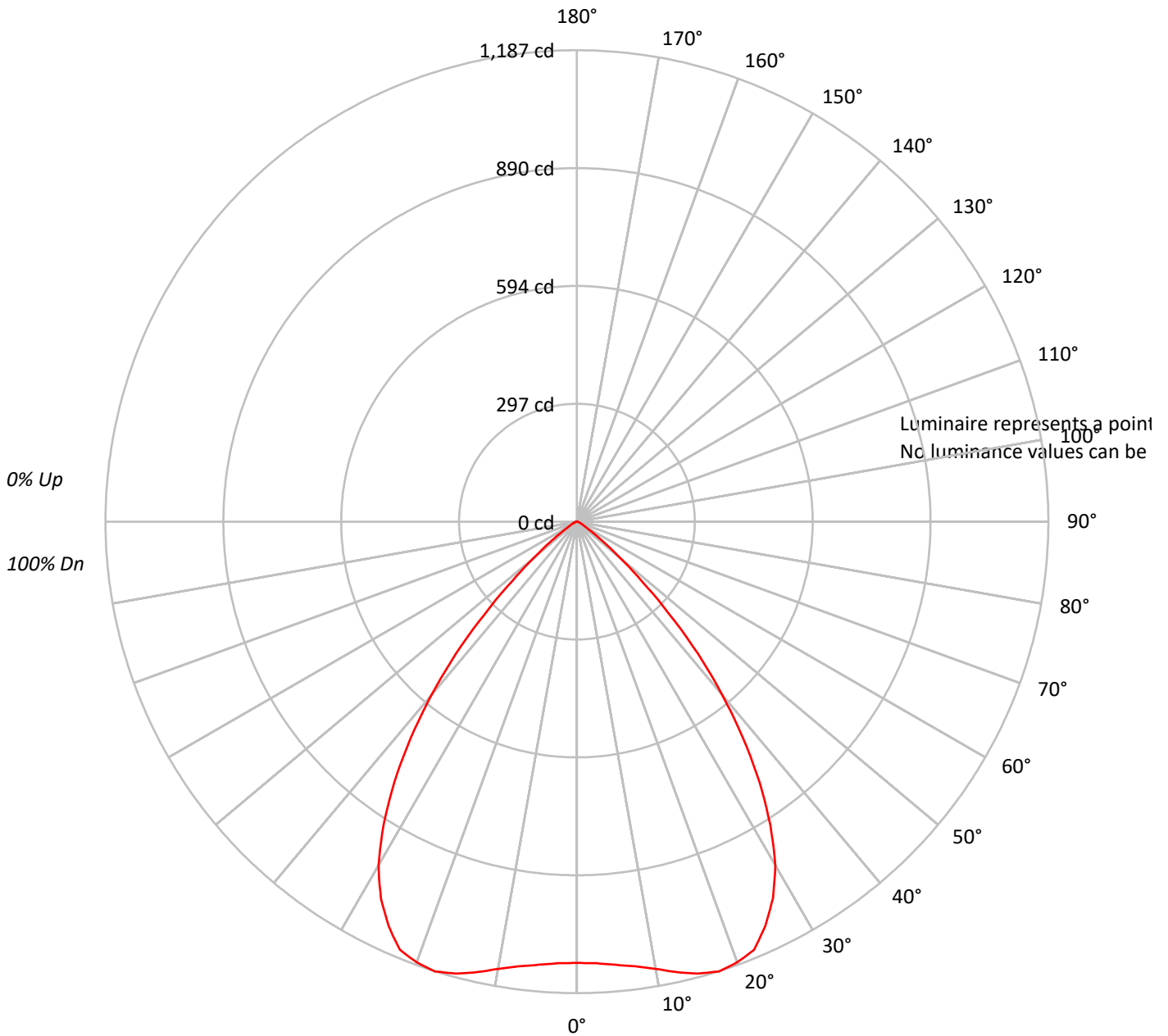
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92			92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84			84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76			76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69			69
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63			63
6	83	73	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58			58
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53			53
8	73	62	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49			49
9	69	58	51	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45			45
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41			41

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	6.1
10°-20°	332.9	18.7
20°-30°	512.1	28.8
30°-40°	494.1	27.8
40°-50°	257.6	14.5
50°-60°	54.2	3.1
60°-70°	12.6	0.7
70°-80°	4.9	0.3
80°-90°	0.3	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°	952.6	53.6
0°-40°	1446.7	81.4
0°-60°	1758.6	99.0
0°-90°	1776.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1776.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1111	
5°	1120	108
15°	1178	333
25°	1122	512
35°	802	494
45°	328	258
55°	49	54
65°	12	13
75°	5	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1110.7
2.5°	1113.0
5°	1120.0
7.5°	1129.3
10°	1143.2
12.5°	1161.7
15°	1178.1
17.5°	1187.4
20°	1180.4
22.5°	1166.4
25°	1122.3
27.5°	1068.8
30°	999.1
32.5°	906.2
35°	801.7
37.5°	687.8
40°	569.2
42.5°	450.8
45°	327.6
47.5°	220.7
50°	141.8
52.5°	86.0
55°	48.8
57.5°	30.2
60°	20.9
62.5°	16.2
65°	11.6
67.5°	9.3
70°	7.0
72.5°	7.0
75°	4.6
77.5°	2.3
80°	2.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)