

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: P211494

Luminaire Tested: **LE_4B20D010 EC4B10208027 4L1BWH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211494
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 EC4B10208027 4L1BWH
Description: PORTFOLIO 4 INCH CYLINDER
WIDE 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: 1878.9 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

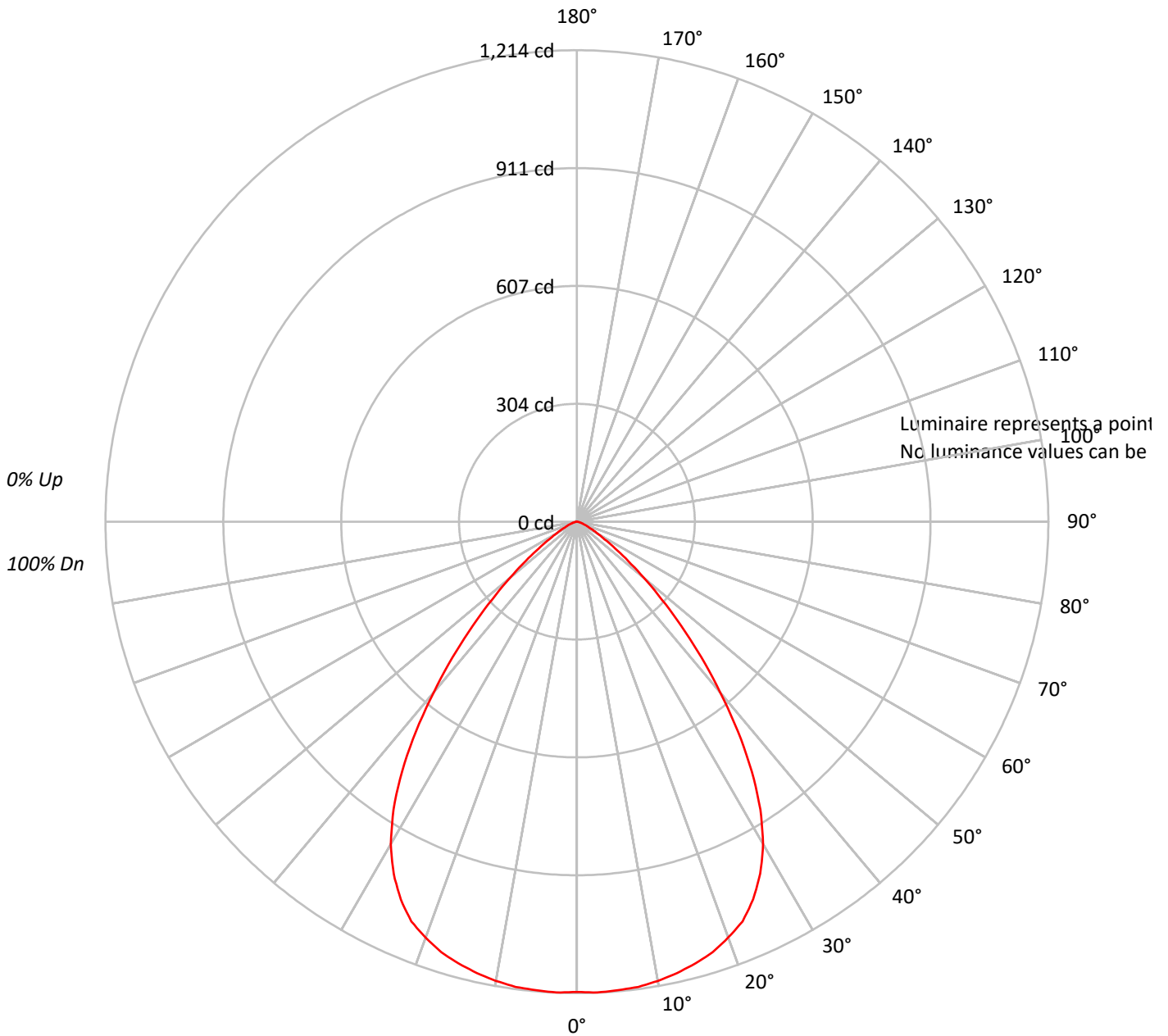
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91				91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82				82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74				74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67				67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61				61
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55				55
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50				50
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46				46
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43				43
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39				39

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	6.1
10°-20°	332.3	17.7
20°-30°	490.4	26.1
30°-40°	483.9	25.8
40°-50°	296.1	15.8
50°-60°	113.5	6.0
60°-70°	35.5	1.9
70°-80°	10.4	0.6
80°-90°	1.4	0.1
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°	938.0	49.9
0°-40°	1421.9	75.7
0°-60°	1831.6	97.5
0°-90°	1878.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1878.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1211	
5°	1211	115
15°	1178	332
25°	1073	490
35°	785	484
45°	380	296
55°	120	114
65°	33	35
75°	10	10
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1211.0
2.5°	1213.6
5°	1211.0
7.5°	1208.5
10°	1200.8
12.5°	1190.6
15°	1177.9
17.5°	1162.6
20°	1139.6
22.5°	1114.2
25°	1073.3
27.5°	1022.3
30°	958.6
32.5°	879.6
35°	785.2
37.5°	680.7
40°	573.6
42.5°	474.2
45°	379.9
47.5°	295.7
50°	224.3
52.5°	165.8
55°	119.8
57.5°	84.1
60°	61.1
62.5°	45.9
65°	33.2
67.5°	25.5
70°	17.9
72.5°	12.8
75°	10.2
77.5°	5.1
80°	5.1
82.5°	2.6
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)