

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: P211697

Luminaire Tested: **LE_4B20D010 EC4B10209035 4L1BWH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211697
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 EC4B10209035 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: 1701.3 lumens
Efficiency: N/A
Efficacy: 81.8 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

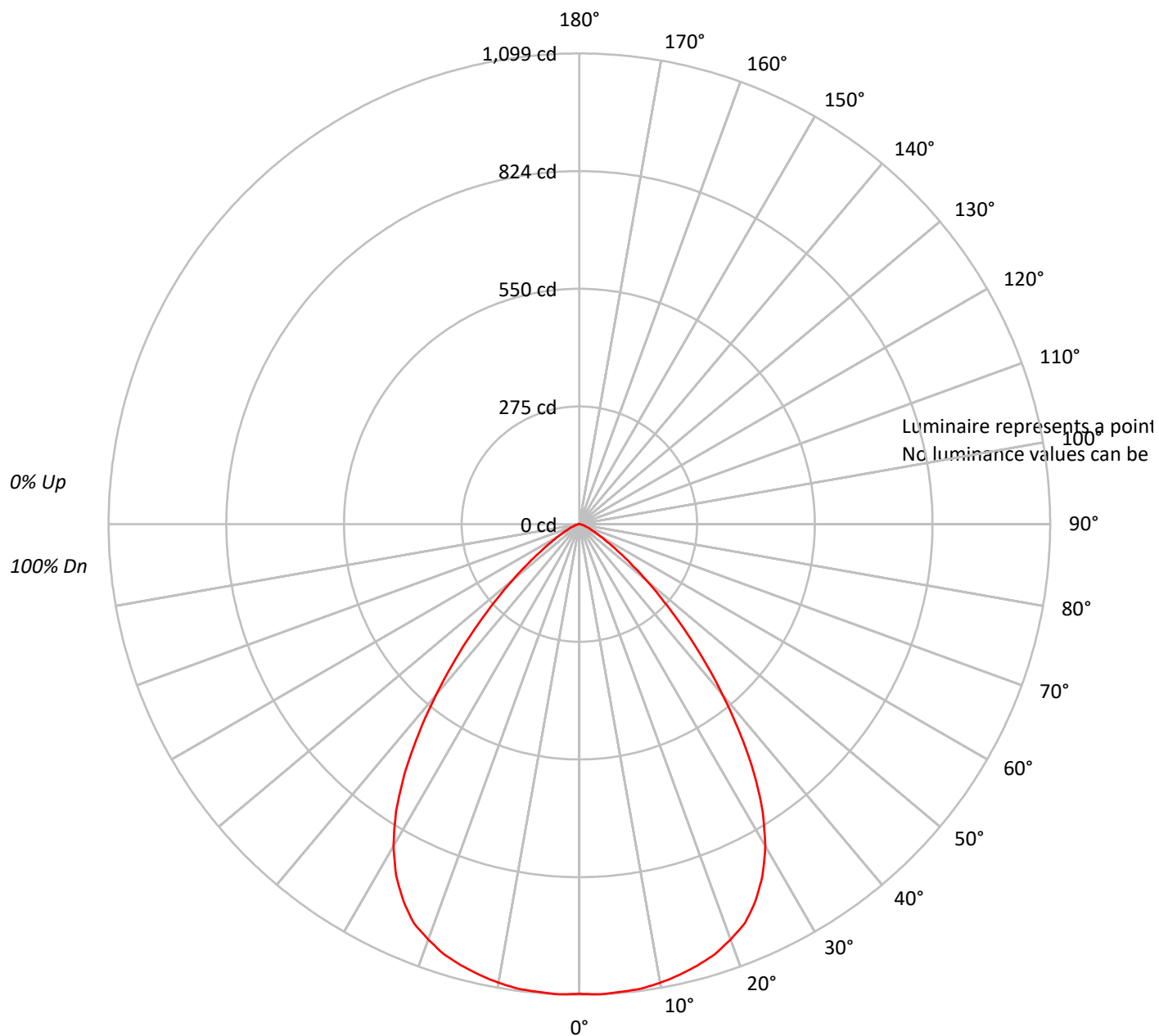
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	6.1
10°-20°	300.9	17.7
20°-30°	444.0	26.1
30°-40°	438.2	25.8
40°-50°	268.1	15.8
50°-60°	102.8	6.0
60°-70°	32.1	1.9
70°-80°	9.4	0.6
80°-90°	1.2	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°	849.4	49.9
0°-40°	1287.6	75.7
0°-60°	1658.5	97.5
0°-90°	1701.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1701.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1096	
5°	1096	104
15°	1066	301
25°	972	444
35°	711	438
45°	344	268
55°	108	103
65°	30	32
75°	9	9
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1096.5
2.5°	1098.9
5°	1096.5
7.5°	1094.2
10°	1087.4
12.5°	1078.1
15°	1066.5
17.5°	1052.7
20°	1031.9
22.5°	1008.9
25°	972.0
27.5°	925.7
30°	868.0
32.5°	796.5
35°	711.1
37.5°	616.4
40°	519.4
42.5°	429.4
45°	343.9
47.5°	267.8
50°	203.1
52.5°	150.1
55°	108.5
57.5°	76.2
60°	55.4
62.5°	41.5
65°	30.0
67.5°	23.1
70°	16.1
72.5°	11.6
75°	9.3
77.5°	4.6
80°	4.6
82.5°	2.3
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)