

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: P211464

Luminaire Tested: **LE_4B20D010 EC4B10209024 4LBW1GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211464
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 4LBW1GPH
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTIONWITH GRAPHITE HAZE 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: 1110.8 lumens
Efficiency: N/A
Efficacy: 53.4 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.08
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

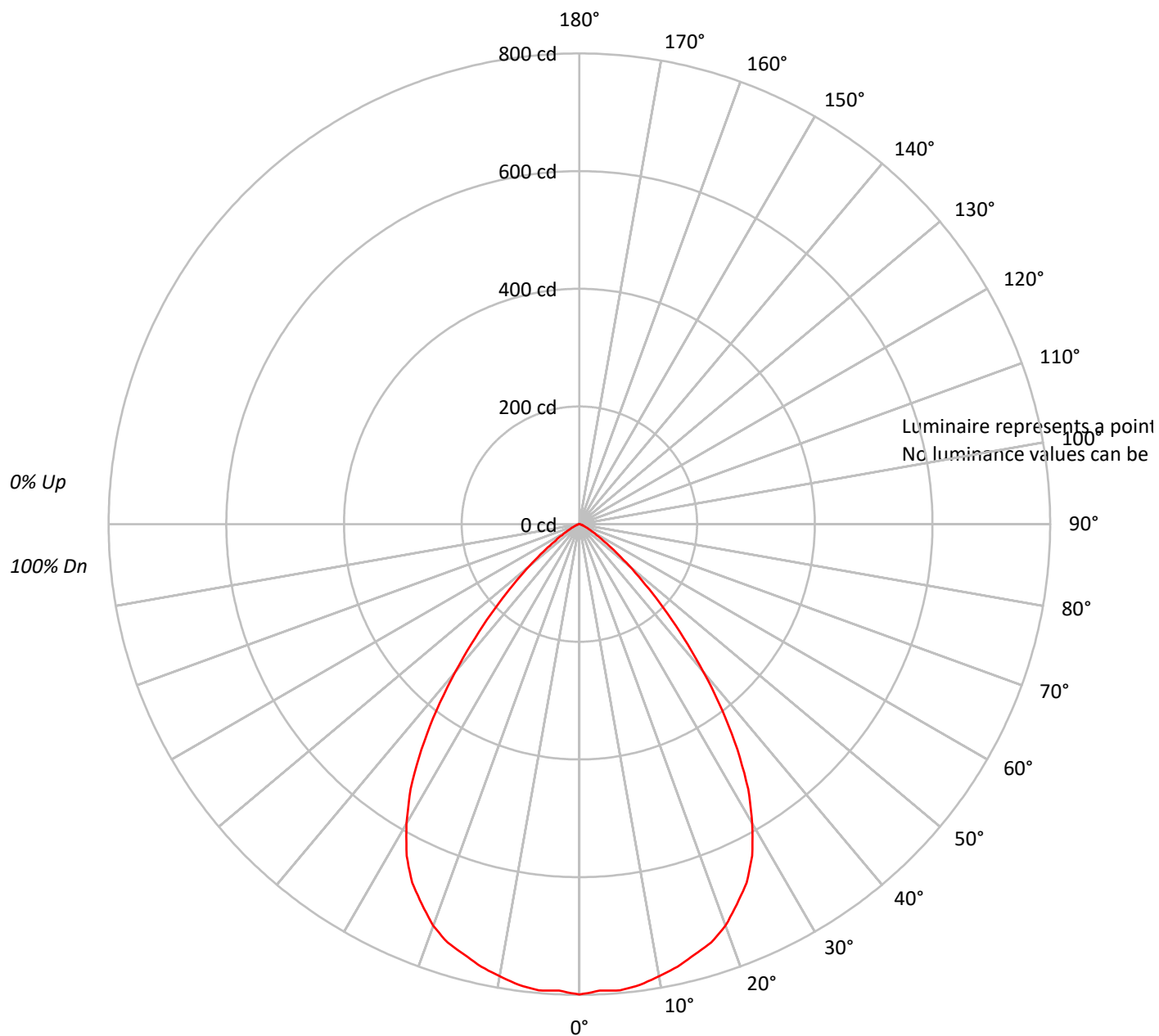
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





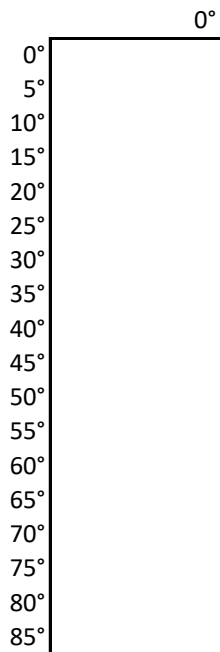
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.4	6.8
10°-20°	213.7	19.2
20°-30°	306.5	27.6
30°-40°	288.6	26.0
40°-50°	159.4	14.3
50°-60°	51.1	4.6
60°-70°	12.8	1.2
70°-80°	3.1	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°	595.6	53.6
0°-40°	884.2	79.6
0°-60°	1094.7	98.5
0°-90°	1110.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1110.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	800	
5°	796	75
15°	757	214
25°	672	306
35°	468	289
45°	202	159
55°	52	51
65°	12	13
75°	2	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	799.5
2.5°	793.7
5°	795.6
7.5°	789.8
10°	780.2
12.5°	770.6
15°	757.1
17.5°	745.5
20°	726.3
22.5°	699.2
25°	672.3
27.5°	635.7
30°	587.5
32.5°	533.6
35°	468.2
37.5°	398.8
40°	327.5
42.5°	262.0
45°	202.3
47.5°	152.2
50°	109.9
52.5°	77.0
55°	52.0
57.5°	34.7
60°	25.1
62.5°	17.3
65°	11.6
67.5°	7.7
70°	5.8
72.5°	3.8
75°	2.0
77.5°	2.0
80°	2.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)