

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: P211446

Luminaire Tested: **LE_4B20D010 EC4B10209024 4LBM1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211446
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 4LBM1LI
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM DISTRIBUTION WITH 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: 1592.1 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.76
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

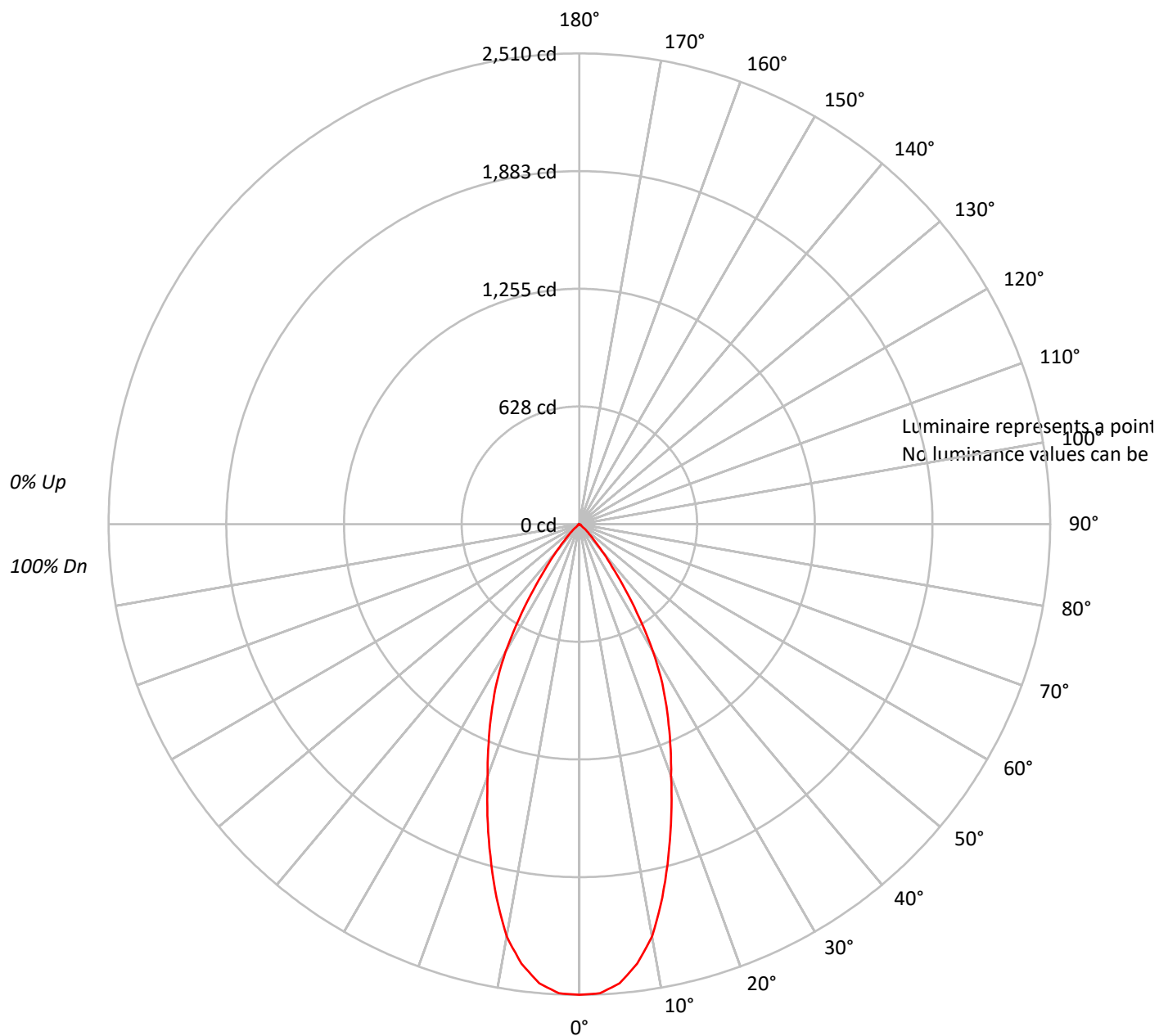
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





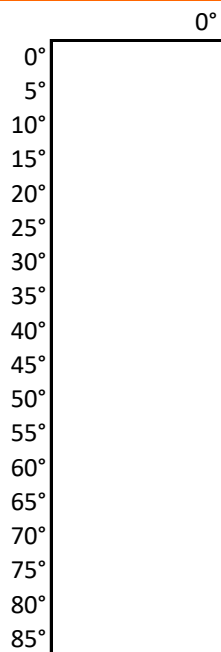
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	114	111	109	107	111	109	107	105	105	103	102		101	100	99		98
2	109	104	100	97	107	102	99	96	99	96	94		96	94	92		94
3	104	98	93	89	102	96	92	89	94	90	87		91	88	86		89
4	99	92	87	83	97	91	86	82	89	85	81		87	83	80		85
5	94	87	81	77	93	86	81	77	84	79	76		82	78	75		81
6	90	82	76	72	89	81	76	72	80	75	71		78	74	71		77
7	86	77	72	68	85	77	71	68	75	71	67		74	70	67		73
8	82	73	68	64	81	73	67	64	72	67	64		71	66	63		70
9	79	70	64	60	78	69	64	60	68	63	60		67	63	60		67
10	75	66	61	57	74	66	61	57	65	60	57		64	60	57		64

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.2	14.3
10°-20°	508.0	31.9
20°-30°	505.1	31.7
30°-40°	275.1	17.3
40°-50°	63.6	4.0
50°-60°	9.0	0.6
60°-70°	3.3	0.2
70°-80°	0.8	0.0
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°	1240.4	77.9
0°-40°	1515.4	95.2
0°-60°	1588.0	99.7
0°-90°	1592.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1592.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2510	
5°	2458	227
15°	1834	508
25°	1108	505
35°	426	275
45°	73	64
55°	10	9
65°	4	3
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2509.8
2.5°	2504.0
5°	2457.8
7.5°	2363.4
10°	2232.4
12.5°	2039.9
15°	1833.7
17.5°	1629.6
20°	1429.2
22.5°	1265.4
25°	1107.6
27.5°	957.3
30°	787.8
32.5°	599.0
35°	425.7
37.5°	287.0
40°	186.9
42.5°	117.5
45°	73.2
47.5°	42.3
50°	21.2
52.5°	11.6
55°	9.6
57.5°	5.8
60°	5.8
62.5°	3.8
65°	3.8
67.5°	2.0
70°	2.0
72.5°	2.0
75°	0.0
77.5°	0.0
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)