

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: P211196

Luminaire Tested: **LE_4B15D010 EC4B10208030 4LBS1GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211196
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_4B15D010 EC4B10208030 4LBS1GPH
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH GRAPHITE HAZE TRIM
WATTAGE D010TR-14.39W DE010-14.29W D5LT-14.34W DMX-14.46W DL2-15.8W
DL3-15.28W DLE-15.432W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1562.6 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.26
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

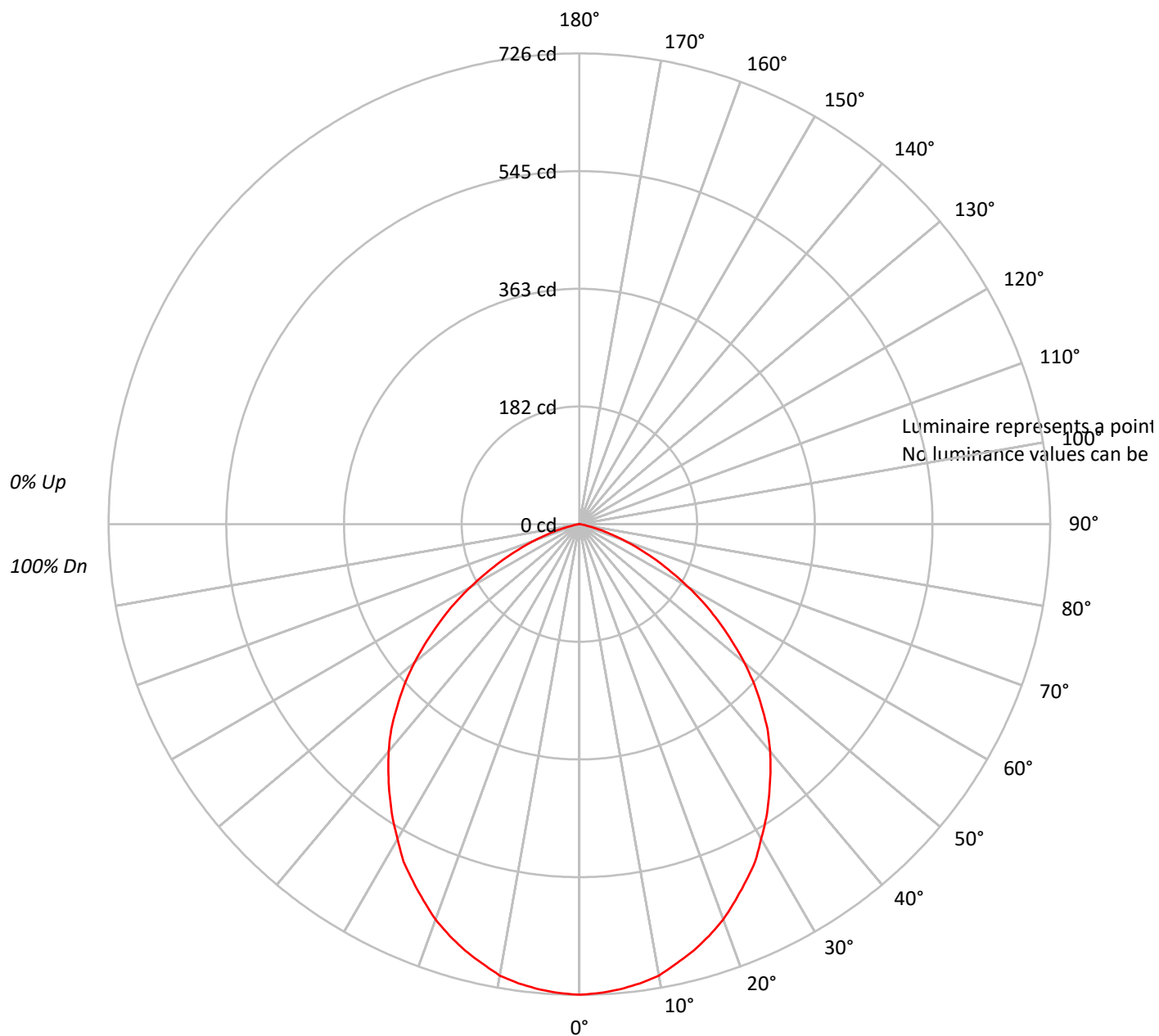
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	103	100		108	105	102	99		101	98	96		97	95	93		93	92	90
2	102	95	89	84		100	93	88	83		90	85	82		87	83	80		84	81	78
3	94	85	78	72		92	83	77	71		80	75	70		78	73	69		75	71	68
4	87	76	68	62		85	75	67	62		72	66	61		70	65	60		68	63	59
5	80	68	60	54		78	67	60	54		65	59	53		63	58	53		62	56	52
6	74	62	54	48		73	61	53	48		59	52	47		58	52	47		56	51	47
7	69	57	48	43		68	56	48	43		54	47	42		53	47	42		52	46	42
8	65	52	44	38		63	51	44	38		50	43	38		49	42	38		48	42	38
9	60	48	40	35		59	47	40	35		46	39	35		45	39	34		44	38	34
10	57	44	37	32		56	44	36	32		43	36	31		42	36	31		41	35	31

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	4.4
10°-20°	191.8	12.3
20°-30°	279.8	17.9
30°-40°	319.0	20.4
40°-50°	306.0	19.6
50°-60°	234.4	15.0
60°-70°	128.6	8.2
70°-80°	34.2	2.2
80°-90°	0.5	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°	539.9	34.6
0°-40°	858.9	55.0
0°-60°	1399.3	89.5
0°-90°	1562.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1562.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	726	
5°	720	68
15°	681	192
25°	608	280
35°	510	319
45°	398	306
55°	262	234
65°	130	129
75°	30	34
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	725.8
2.5°	724.0
5°	720.1
7.5°	714.6
10°	707.0
12.5°	693.9
15°	680.8
17.5°	665.7
20°	648.9
22.5°	628.3
25°	607.6
27.5°	587.0
30°	560.7
32.5°	536.4
35°	510.2
37.5°	483.8
40°	457.6
42.5°	429.4
45°	397.5
47.5°	365.7
50°	332.0
52.5°	296.3
55°	262.5
57.5°	228.8
60°	193.1
62.5°	159.4
65°	129.5
67.5°	99.4
70°	73.2
72.5°	48.7
75°	30.0
77.5°	13.1
80°	3.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)