

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: P211252

Luminaire Tested: **LE_4B15D010 EC4B10209730 4LBPS1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211252
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 EC4B10209730 4LBPS1MW
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH PLASTIC MATTE WHITE 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: 1380.0 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

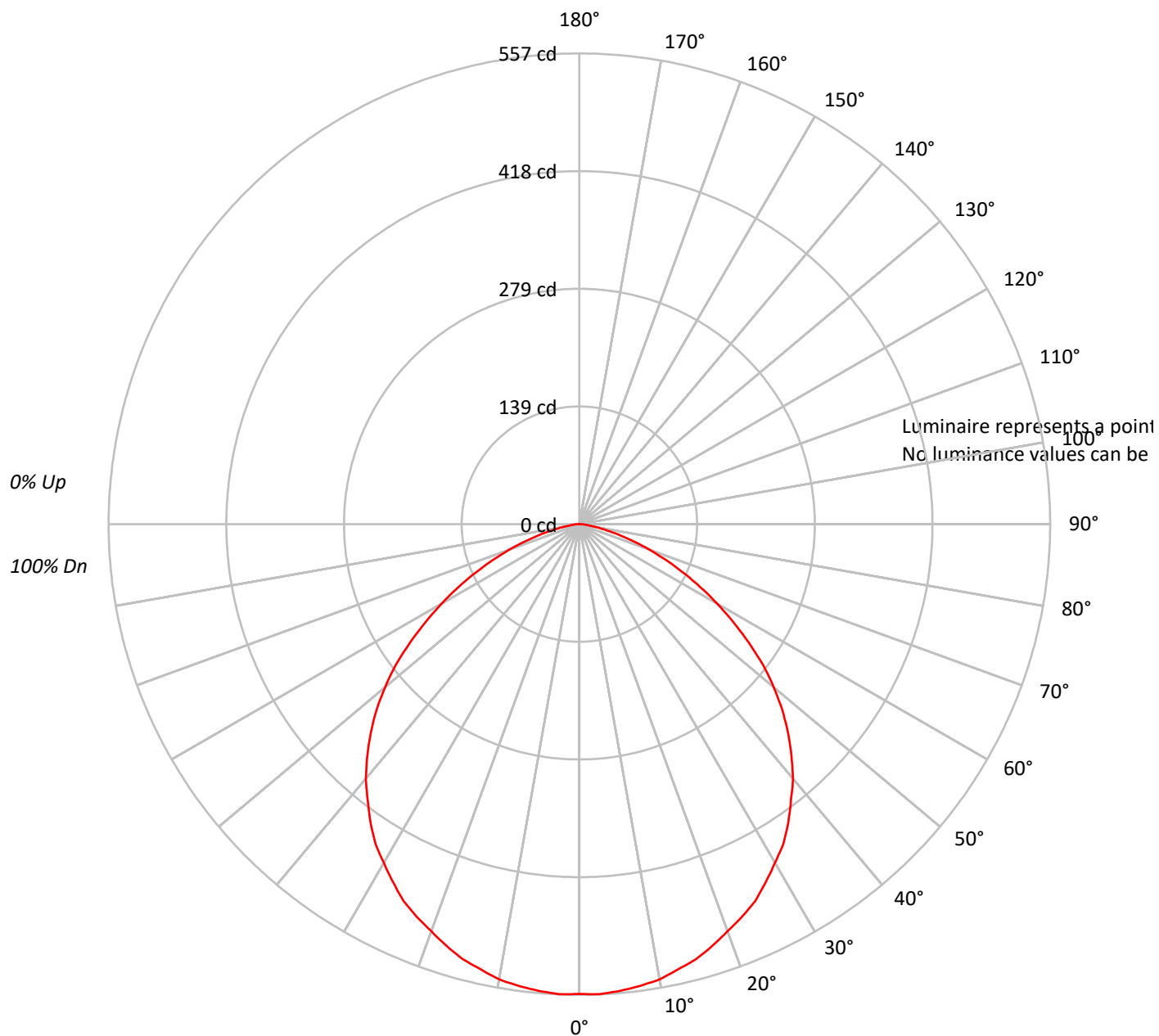
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





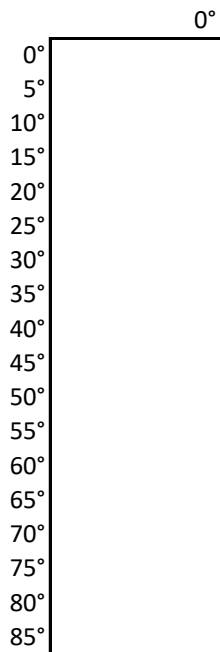
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	110	106	102	99		107	104	100	97		99	97	94		96	93	91		92	90	88
2	101	93	87	82		98	92	86	81		88	83	79		85	81	77		82	79	76
3	93	83	75	69		90	81	74	69		78	72	67		76	70	66		73	69	65
4	85	74	66	59		83	72	65	59		70	63	58		68	62	57		66	61	56
5	78	66	58	51		76	65	57	51		63	56	51		61	55	50		59	54	49
6	73	60	51	45		71	59	51	45		57	50	44		55	49	44		54	48	44
7	67	54	46	40		66	54	46	40		52	45	40		51	44	39		49	43	39
8	63	50	41	36		61	49	41	36		48	41	35		46	40	35		45	39	35
9	59	46	38	32		57	45	37	32		44	37	32		43	36	32		42	36	32
10	55	42	34	29		54	42	34	29		41	34	29		40	33	29		39	33	29

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	3.8
10°-20°	150.2	10.9
20°-30°	226.2	16.4
30°-40°	269.1	19.5
40°-50°	268.6	19.5
50°-60°	218.5	15.8
60°-70°	134.4	9.7
70°-80°	52.1	3.8
80°-90°	8.3	0.6
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°	429.0	31.1
0°-40°	698.1	50.6
0°-60°	1185.2	85.9
0°-90°	1380.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1380.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	556	
5°	554	53
15°	533	150
25°	492	226
35°	431	269
45°	349	269
55°	244	218
65°	135	134
75°	47	52
85°	6	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	556.0
2.5°	556.8
5°	554.4
7.5°	551.1
10°	547.1
12.5°	539.6
15°	533.1
17.5°	523.3
20°	512.7
22.5°	502.9
25°	492.2
27.5°	477.5
30°	462.8
32.5°	448.9
35°	430.9
37.5°	411.3
40°	393.2
42.5°	371.2
45°	349.2
47.5°	325.4
50°	300.1
52.5°	273.9
55°	244.5
57.5°	215.9
60°	188.0
62.5°	161.1
65°	134.9
67.5°	110.4
70°	87.5
72.5°	66.2
75°	47.4
77.5°	31.1
80°	18.8
82.5°	11.5
85°	6.5
87.5°	3.2
90°	0.0



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— 0°-180°







(END OF REPORT)