

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: P212085

Luminaire Tested: **LE_4B30D010 EC4B30508040 4LBM1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212085
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_4B30D010 EC4B30508040 4LBM1MW
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM DISTRIBUTION WITH MATTE WHITE TRIM
WATTAGE D010TR-27.4W DE010-27.95W D5LT-27.65W DMX-27.73W DL2-29.56W
DL3-29.67W DLE-29.73W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2744.2 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 0.99 / 0.97
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

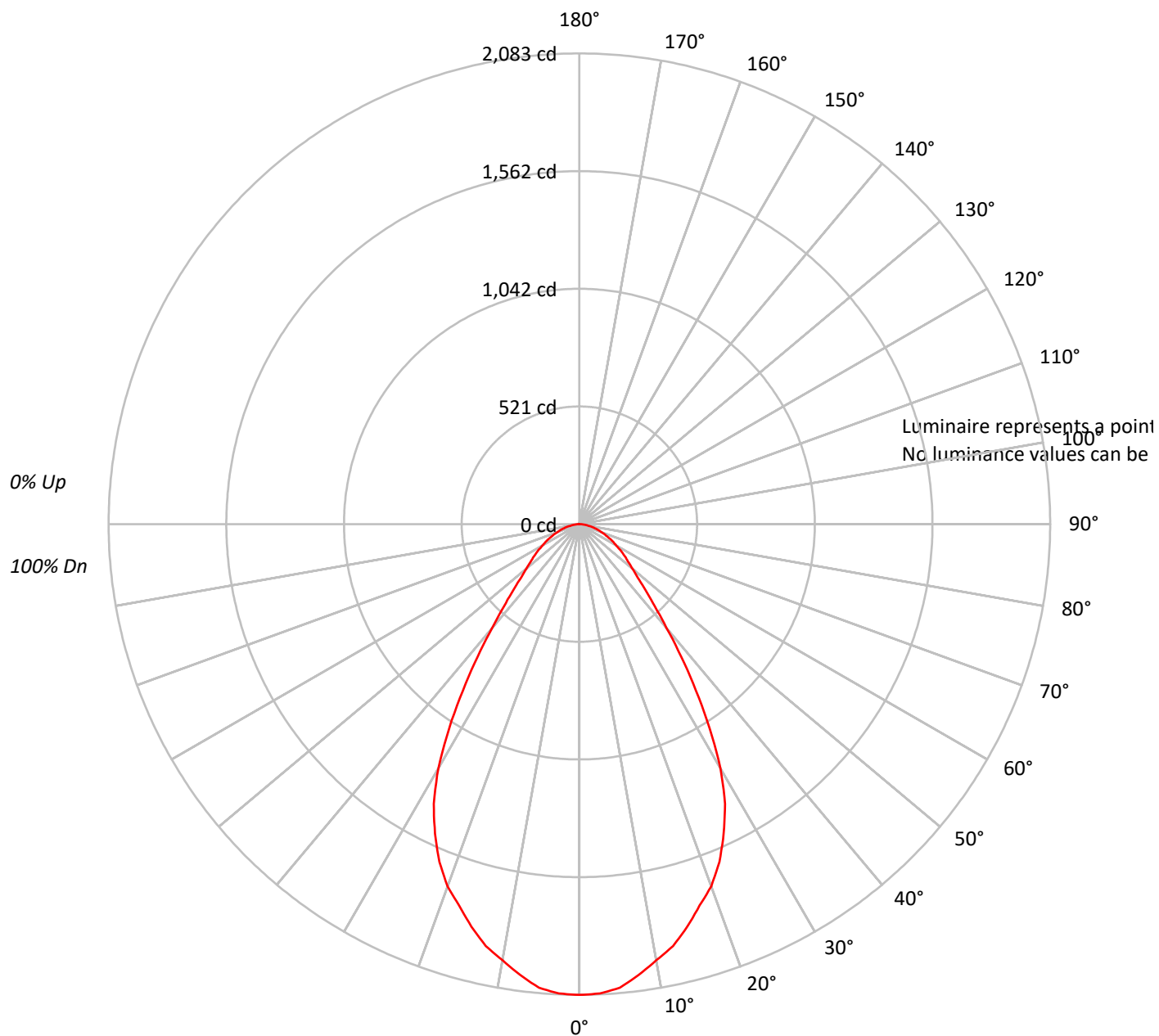
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





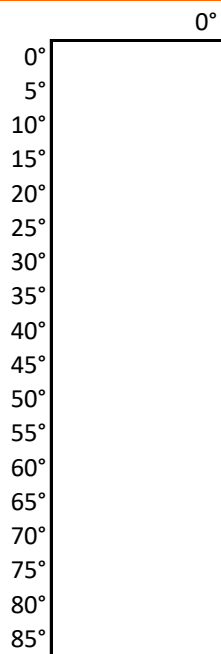
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	108	105	102	109	106	103	100	102	99	97		98	96	94		94
2	104	98	92	88	102	96	91	87	93	89	85		89	86	83		87
3	97	89	83	77	95	87	82	77	85	80	76		82	78	74		80
4	91	81	74	69	89	80	74	69	78	72	68		76	71	67		74
5	85	75	67	62	83	74	67	62	72	66	61		70	65	61		68
6	80	69	62	56	78	68	61	56	66	60	56		65	59	55		63
7	75	64	57	52	74	63	56	51	62	56	51		60	55	51		59
8	71	59	52	47	69	59	52	47	58	51	47		56	51	47		55
9	67	55	48	44	66	55	48	44	54	48	44		53	47	43		52
10	63	52	45	41	62	51	45	41	51	45	40		50	44	40		49

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.1	7.0
10°-20°	517.6	18.9
20°-30°	688.3	25.1
30°-40°	562.9	20.5
40°-50°	327.9	11.9
50°-60°	217.5	7.9
60°-70°	143.0	5.2
70°-80°	75.5	2.8
80°-90°	18.4	0.7
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°	1399.1	51.0
0°-40°	1962.0	71.5
0°-60°	2507.4	91.4
0°-90°	2744.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2744.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2083	
5°	2059	193
15°	1845	518
25°	1511	688
35°	898	563
45°	413	328
55°	243	218
65°	143	143
75°	72	76
85°	16	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2083.2
2.5°	2079.2
5°	2059.3
7.5°	2011.7
10°	1959.9
12.5°	1912.3
15°	1844.6
17.5°	1769.1
20°	1705.5
22.5°	1618.1
25°	1510.7
27.5°	1395.5
30°	1248.3
32.5°	1073.3
35°	898.5
37.5°	739.5
40°	600.3
42.5°	493.0
45°	413.4
47.5°	349.9
50°	306.1
52.5°	270.4
55°	242.6
57.5°	214.7
60°	186.9
62.5°	166.9
65°	143.1
67.5°	123.2
70°	103.4
72.5°	87.5
75°	71.6
77.5°	55.7
80°	39.8
82.5°	27.8
85°	15.9
87.5°	3.9
90°	0.0



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— 0°-180°







(END OF REPORT)