

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: P210765

Luminaire Tested: **LE_4B10D010 EC4B10209027 4LBS1WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210765
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_4B10D010 EC4B10209027 4LBS1WH
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH WHEAT TRIM
WATTAGE D010TR-10.05W DE010-10.58W D5LT-10.2W DMX-10.6W DL2-11.8W
DL3-11.1W DLE-11.39W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1009.9 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 1.08
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

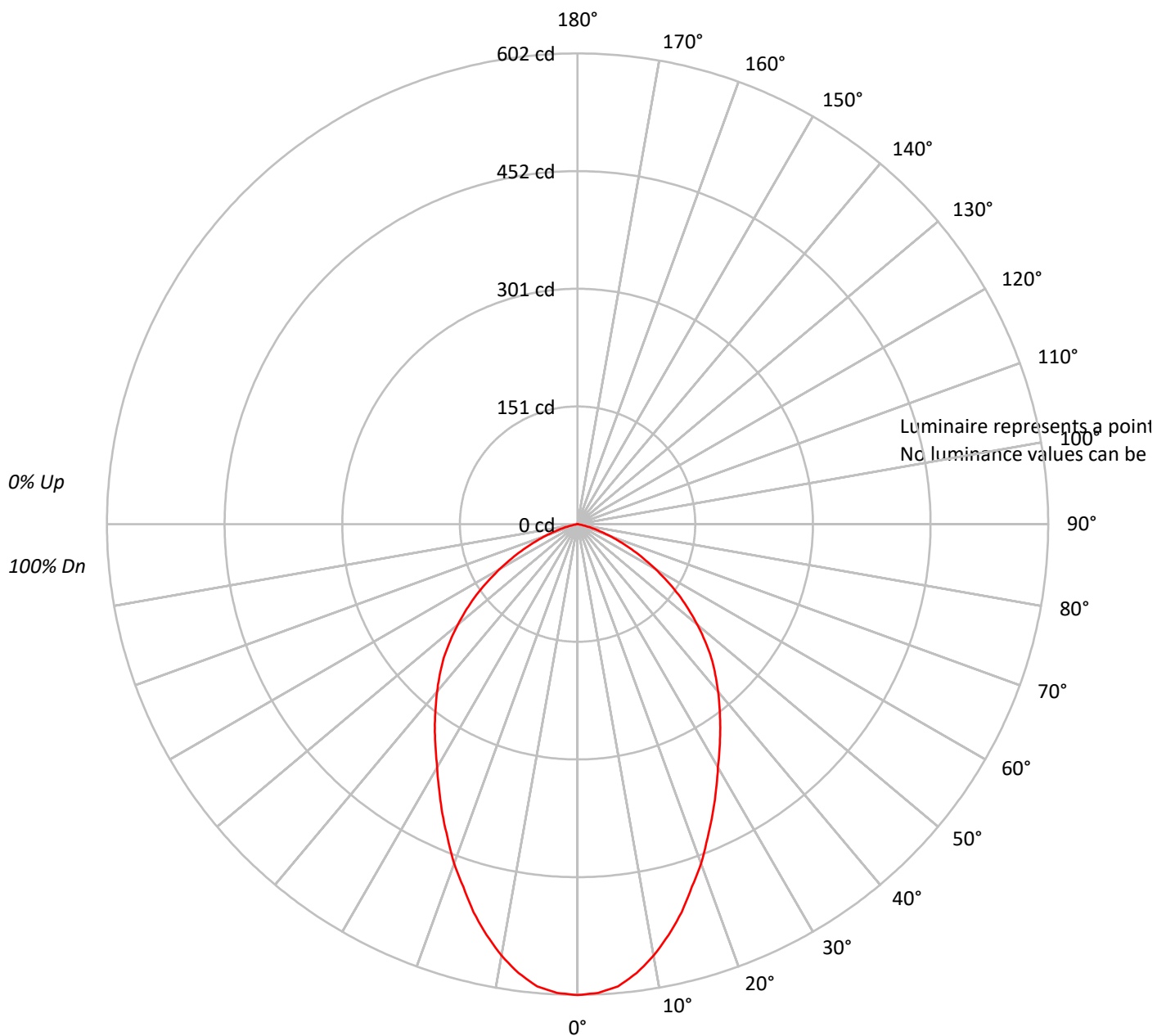
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





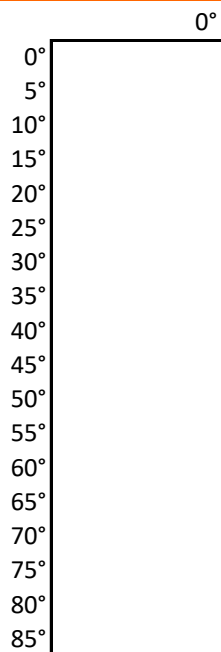
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	104	101		108	105	102	99		101	98	96		97	95	93		94	92	90
2	103	96	90	85		100	94	89	84		91	86	83		87	84	81		85	82	79
3	95	86	79	73		93	84	78	73		82	76	72		79	74	70		76	73	69
4	88	77	70	64		86	76	69	63		74	68	63		72	66	62		69	65	61
5	81	70	62	56		79	69	62	56		67	60	55		65	59	55		63	58	54
6	76	64	56	50		74	63	55	50		61	54	49		60	54	49		58	53	49
7	71	58	51	45		69	58	50	45		56	49	45		55	49	44		54	48	44
8	66	54	46	41		65	53	46	41		52	45	40		51	45	40		50	44	40
9	62	50	42	37		61	49	42	37		48	41	37		47	41	37		46	41	37
10	58	46	39	34		57	46	39	34		45	38	34		44	38	34		43	38	34

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	5.5
10°-20°	143.8	14.2
20°-30°	188.1	18.6
30°-40°	199.1	19.7
40°-50°	185.7	18.4
50°-60°	140.7	13.9
60°-70°	76.2	7.5
70°-80°	20.4	2.0
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°	387.4	38.4
0°-40°	586.5	58.1
0°-60°	912.9	90.4
0°-90°	1009.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1009.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	602	
5°	594	56
15°	514	144
25°	409	188
35°	318	199
45°	242	186
55°	158	141
65°	76	76
75°	18	20
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	602.3
2.5°	600.1
5°	593.5
7.5°	579.1
10°	560.3
12.5°	538.2
15°	513.9
17.5°	486.3
20°	461.9
22.5°	434.3
25°	408.9
27.5°	383.5
30°	359.1
32.5°	338.1
35°	318.3
37.5°	298.4
40°	279.6
42.5°	260.8
45°	242.0
47.5°	221.0
50°	200.0
52.5°	179.0
55°	158.0
57.5°	136.0
60°	115.0
62.5°	95.0
65°	76.2
67.5°	58.6
70°	43.2
72.5°	29.8
75°	17.6
77.5°	7.8
80°	2.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)