

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: P210703

Luminaire Tested: **LE_4B10D010 EC4B10209024 4LBS1GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210703
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 EC4B10209024 4LBS1GPH
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH GRAPHITE HAZE 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: 810.6 lumens
Efficiency: N/A
Efficacy: 81.9 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

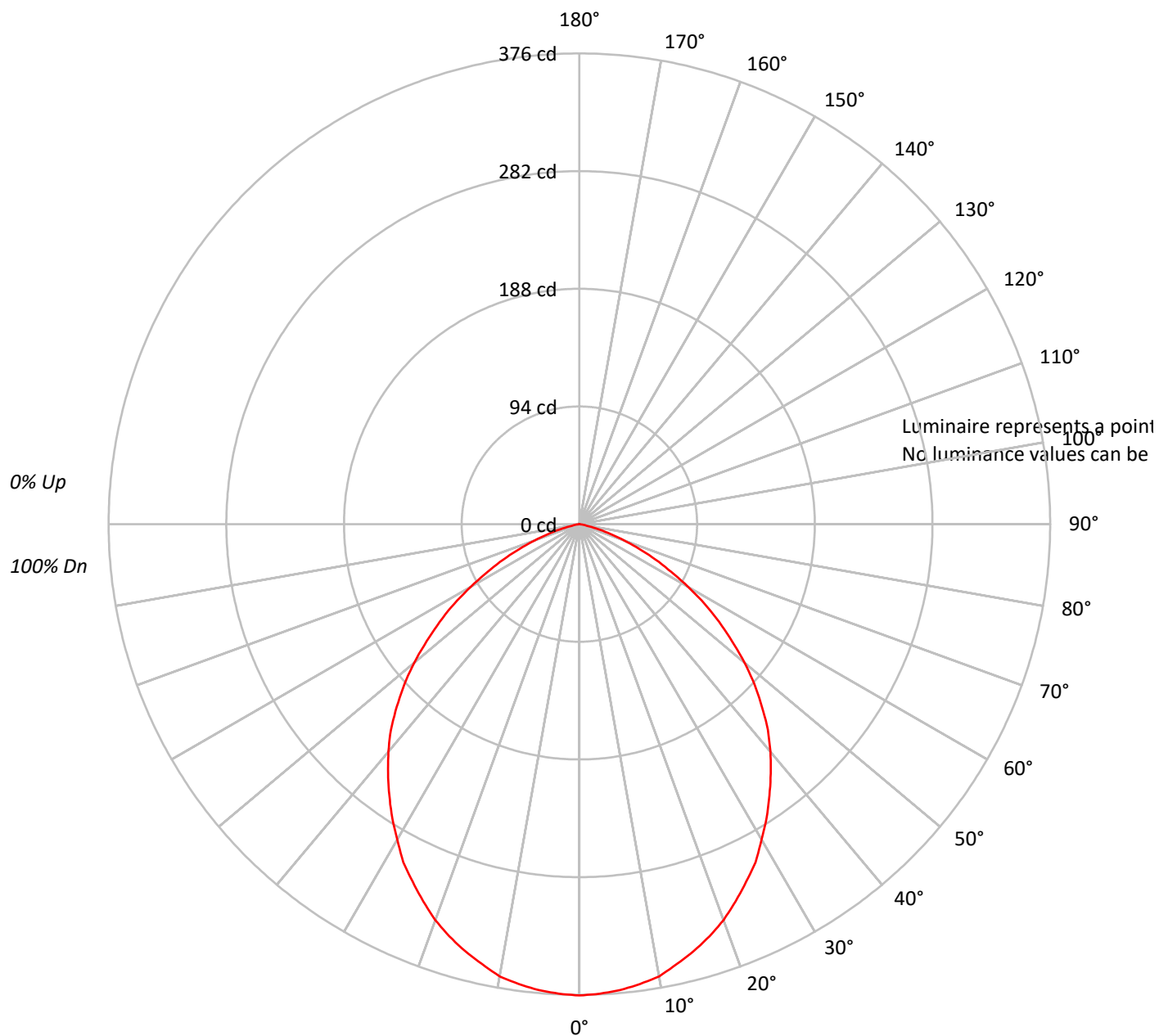
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





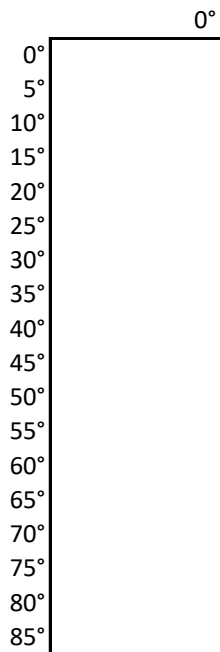
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
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	91	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°	35.4	4.4
10°-20°	99.5	12.3
20°-30°	145.1	17.9
30°-40°	165.5	20.4
40°-50°	158.7	19.6
50°-60°	121.6	15.0
60°-70°	66.7	8.2
70°-80°	17.7	2.2
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°	280.1	34.6
0°-40°	445.6	55.0
0°-60°	725.9	89.5
0°-90°	810.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	810.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	376	
5°	374	35
15°	353	99
25°	315	145
35°	265	165
45°	206	159
55°	136	122
65°	67	67
75°	16	18
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	376.5
2.5°	375.5
5°	373.6
7.5°	370.6
10°	366.8
12.5°	359.9
15°	353.1
17.5°	345.3
20°	336.6
22.5°	326.0
25°	315.2
27.5°	304.5
30°	290.9
32.5°	278.3
35°	264.6
37.5°	251.0
40°	237.3
42.5°	222.8
45°	206.2
47.5°	189.7
50°	172.1
52.5°	153.7
55°	136.2
57.5°	118.7
60°	100.2
62.5°	82.7
65°	67.2
67.5°	51.6
70°	37.9
72.5°	25.3
75°	15.5
77.5°	6.8
80°	2.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)