

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: P211645

Luminaire Tested: **LE_4B20D010 EC4B10208035 4LBCS1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211645
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_4B20D010 EC4B10208035 4LBCS1MW
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST MATTE WHITE TRIM
WATTAGE D010TR-21.86W DE010-20.46W D5LT-21.24W DMX-20.89W DL2-22.5W
DL3-21.8 6W DLE-22.46W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2511.9 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

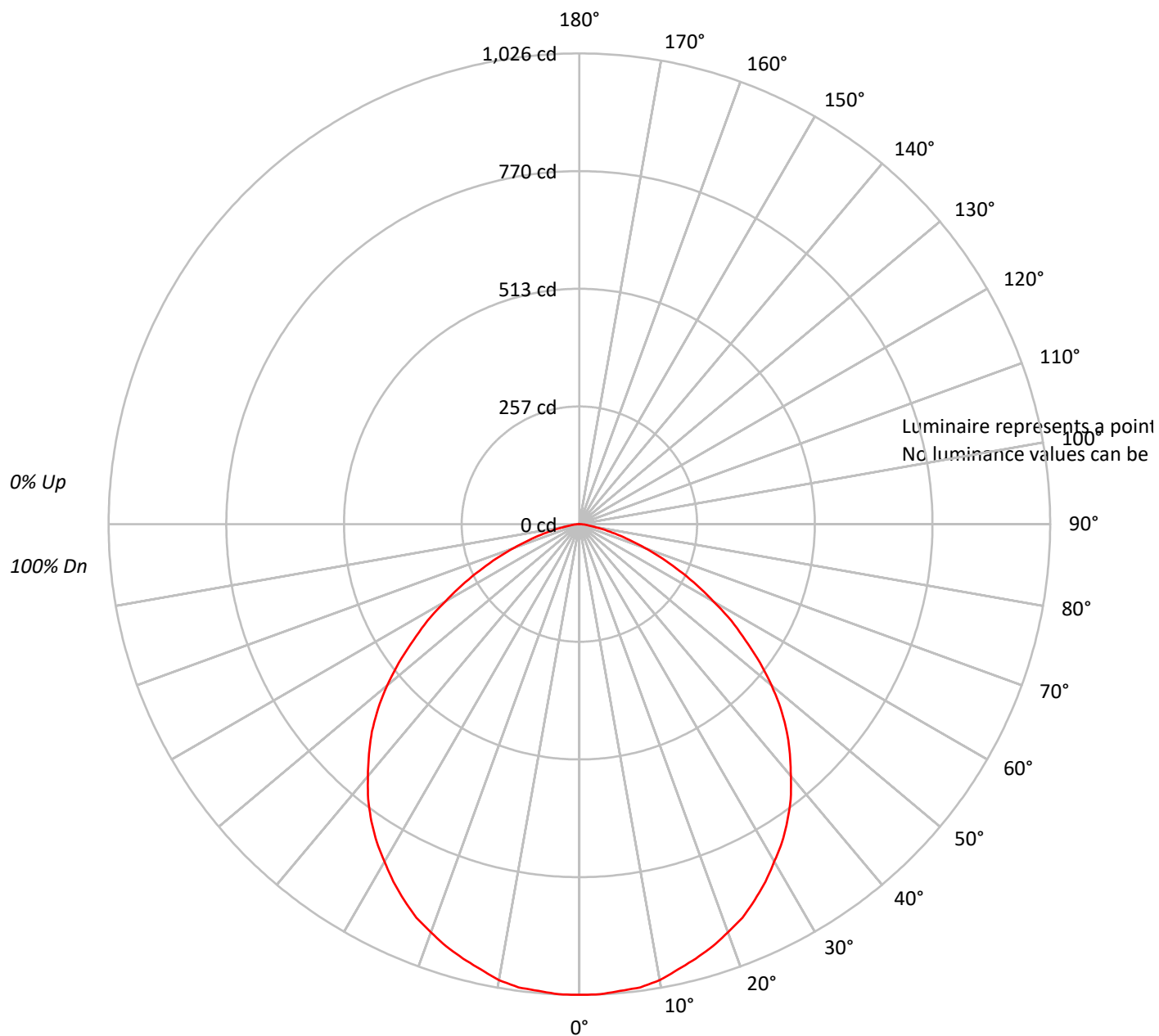
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





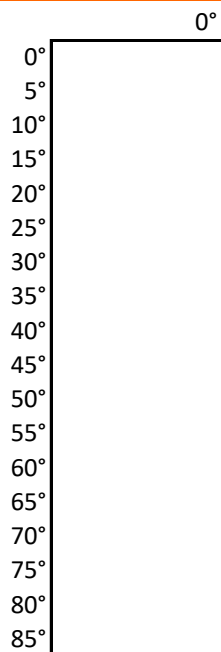
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	110	106	102	99	108	104	100	97	100	97	94		96	93	91		92
2	101	94	87	82	99	92	86	81	88	84	79		85	81	78		82
3	93	83	75	70	90	81	74	69	79	73	68		76	71	67		73
4	85	74	66	60	83	73	65	59	70	64	58		68	62	58		66
5	79	66	58	52	77	65	57	51	63	56	51		61	55	50		60
6	73	60	52	45	71	59	51	45	57	50	45		56	49	44		54
7	68	55	46	40	66	54	46	40	52	45	40		51	44	40		50
8	63	50	42	36	61	49	41	36	48	41	36		47	40	36		46
9	59	46	38	33	57	45	38	32	44	37	32		43	37	32		42
10	55	42	35	30	54	42	34	30	41	34	29		40	34	29		39

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	3.9
10°-20°	276.7	11.0
20°-30°	416.3	16.6
30°-40°	493.4	19.6
40°-50°	491.0	19.5
50°-60°	395.8	15.8
60°-70°	239.4	9.5
70°-80°	88.8	3.5
80°-90°	13.2	0.5
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°	790.3	31.5
0°-40°	1283.7	51.1
0°-60°	2170.4	86.4
0°-90°	2511.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2511.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1026	
5°	1021	97
15°	980	277
25°	904	416
35°	790	493
45°	639	491
55°	441	396
65°	240	239
75°	81	89
85°	11	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1025.9
2.5°	1025.9
5°	1021.4
7.5°	1018.4
10°	1009.2
12.5°	994.0
15°	980.3
17.5°	965.1
20°	946.8
22.5°	928.6
25°	904.2
27.5°	878.4
30°	849.4
32.5°	822.0
35°	790.1
37.5°	756.6
40°	717.0
42.5°	678.9
45°	639.3
47.5°	595.2
50°	546.5
52.5°	496.2
55°	441.4
57.5°	392.8
60°	337.9
62.5°	289.2
65°	240.5
67.5°	194.9
70°	152.2
72.5°	114.1
75°	80.6
77.5°	51.7
80°	30.4
82.5°	18.2
85°	10.7
87.5°	4.5
90°	0.0



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— 0°-180°







(END OF REPORT)