

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: P211674

Luminaire Tested: **LE_4B20D010 EC4B10209035 4LBCS1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211674
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 EC4B10209035 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: 2123.6 lumens
Efficiency: N/A
Efficacy: 102.1 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

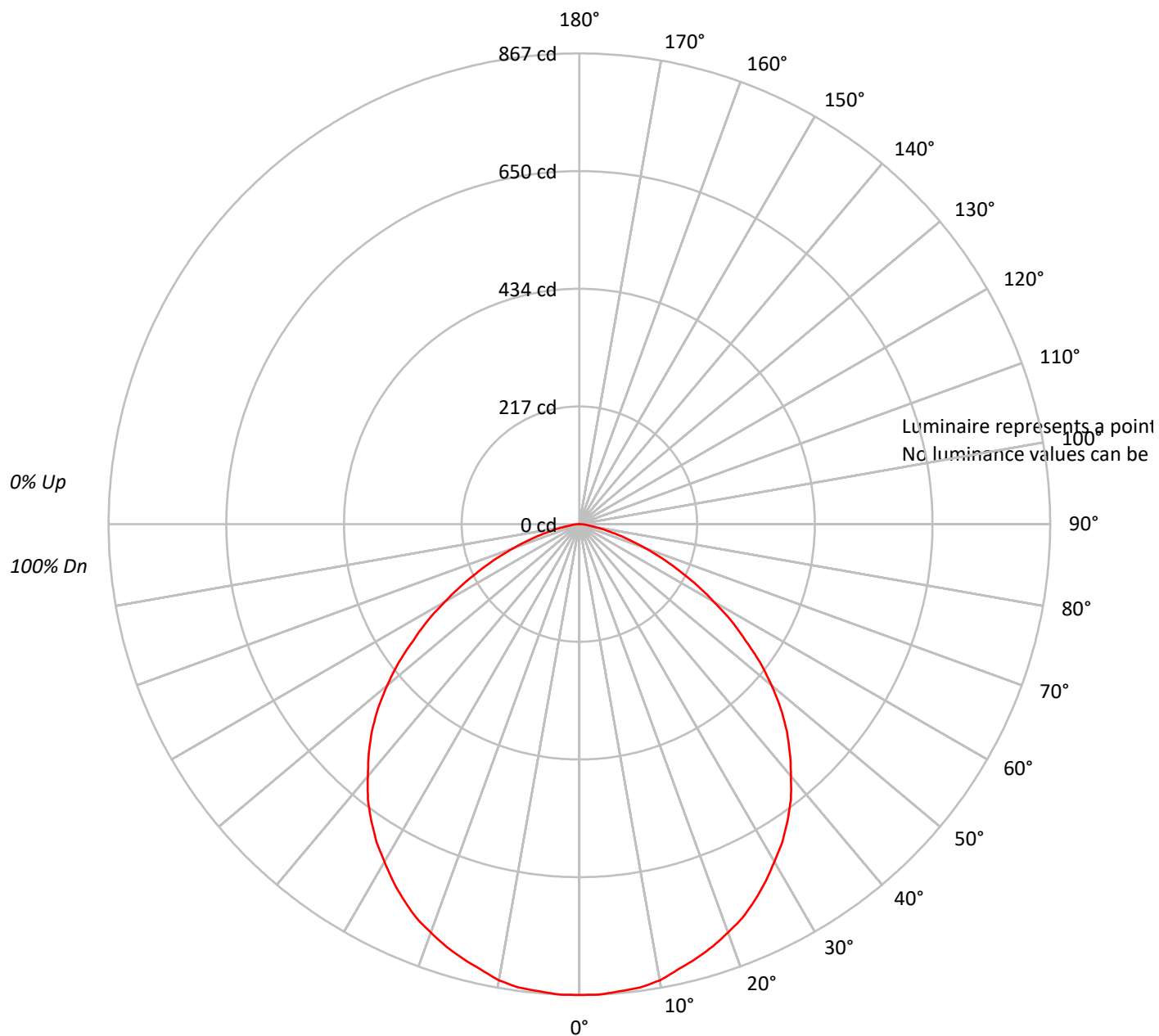
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





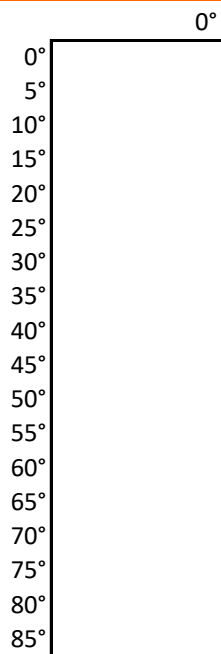
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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°	82.2	3.9
10°-20°	234.0	11.0
20°-30°	351.9	16.6
30°-40°	417.1	19.6
40°-50°	415.1	19.5
50°-60°	334.6	15.8
60°-70°	202.4	9.5
70°-80°	75.1	3.5
80°-90°	11.2	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°	668.1	31.5
0°-40°	1085.2	51.1
0°-60°	1834.9	86.4
0°-90°	2123.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2123.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	867	
5°	864	82
15°	829	234
25°	764	352
35°	668	417
45°	540	415
55°	373	335
65°	203	202
75°	68	75
85°	9	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	867.3
2.5°	867.3
5°	863.5
7.5°	861.0
10°	853.2
12.5°	840.3
15°	828.7
17.5°	815.9
20°	800.4
22.5°	785.0
25°	764.4
27.5°	742.5
30°	718.0
32.5°	695.0
35°	667.9
37.5°	639.6
40°	606.1
42.5°	574.0
45°	540.4
47.5°	503.2
50°	462.0
52.5°	419.6
55°	373.2
57.5°	332.0
60°	285.7
62.5°	244.5
65°	203.3
67.5°	164.7
70°	128.6
72.5°	96.5
75°	68.2
77.5°	43.7
80°	25.8
82.5°	15.4
85°	9.0
87.5°	3.8
90°	0.0



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— 0°-180°







(END OF REPORT)