

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: P211672

Luminaire Tested: **LE_4B20D010 EC4B10209035 4LBCSM1B**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211672
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 4LBCSM1B
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST MATTE METALLIC SILVER 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: 1988.6 lumens
Efficiency: N/A
Efficacy: 95.6 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

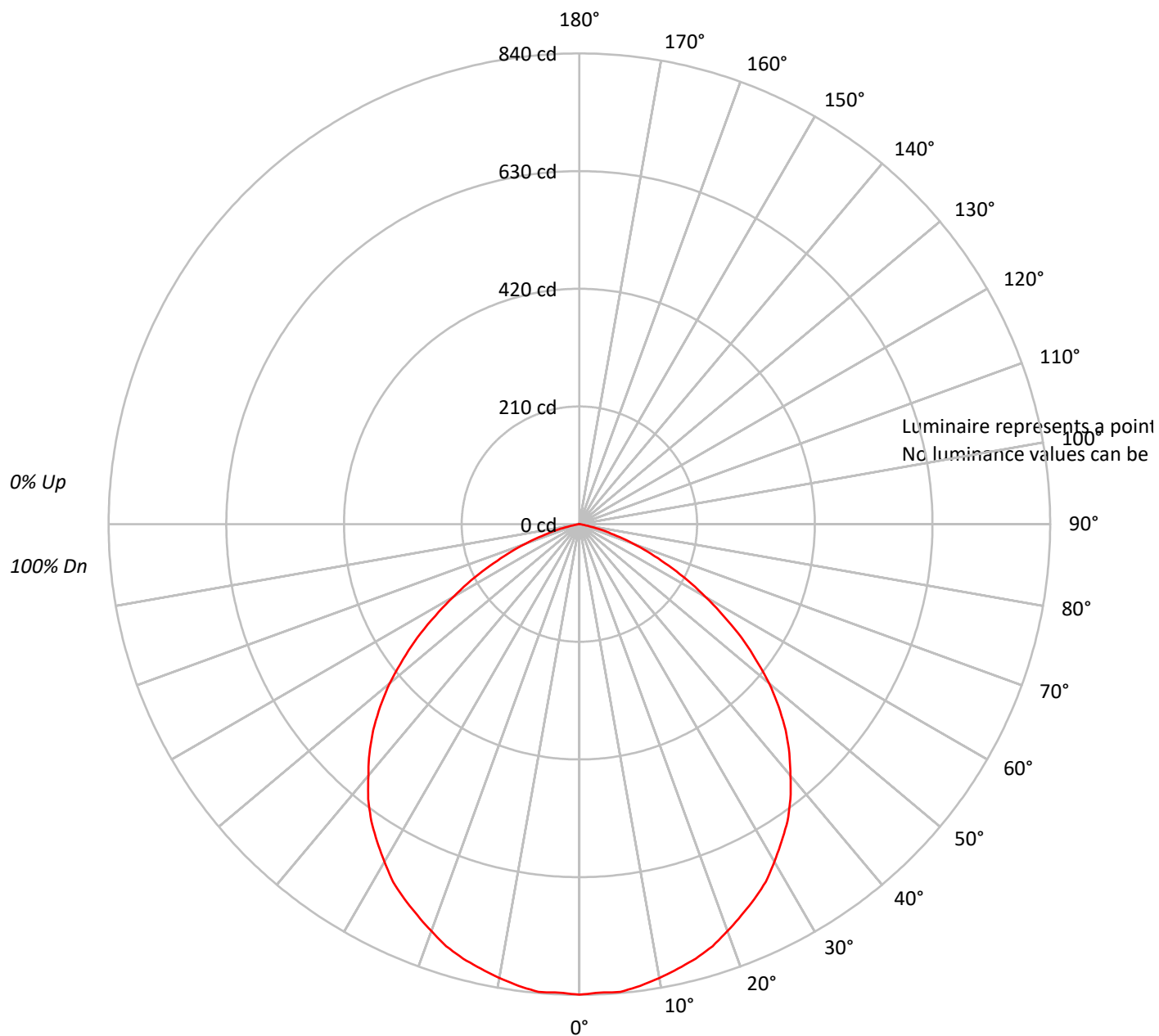
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	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	100		
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88		
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75		
3	93	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	65		
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56		
5	79	67	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49		
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43		
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	39		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35		
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28		

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.4	4.0
10°-20°	226.3	11.4
20°-30°	340.1	17.1
30°-40°	403.6	20.3
40°-50°	399.4	20.1
50°-60°	313.8	15.8
60°-70°	175.9	8.8
70°-80°	49.4	2.5
80°-90°	0.8	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°	645.8	32.5
0°-40°	1049.4	52.8
0°-60°	1762.6	88.6
0°-90°	1988.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1988.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	840	
5°	838	79
15°	803	226
25°	738	340
35°	647	404
45°	520	399
55°	354	314
65°	175	176
75°	43	49
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	839.7
2.5°	836.8
5°	838.2
7.5°	831.1
10°	822.6
12.5°	812.6
15°	802.6
17.5°	789.8
20°	772.7
22.5°	755.6
25°	738.5
27.5°	719.9
30°	695.7
32.5°	671.5
35°	647.3
37.5°	618.7
40°	585.9
42.5°	554.6
45°	520.4
47.5°	481.9
50°	442.0
52.5°	396.4
55°	353.6
57.5°	305.1
60°	259.5
62.5°	218.1
65°	175.4
67.5°	138.3
70°	102.7
72.5°	69.8
75°	42.8
77.5°	21.3
80°	5.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)