

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: P211442

Luminaire Tested: **LE_4B20D010 EC4B10209024 4LBCS1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211442
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 EC4B10209024 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: 1770.9 lumens
Efficiency: N/A
Efficacy: 85.1 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

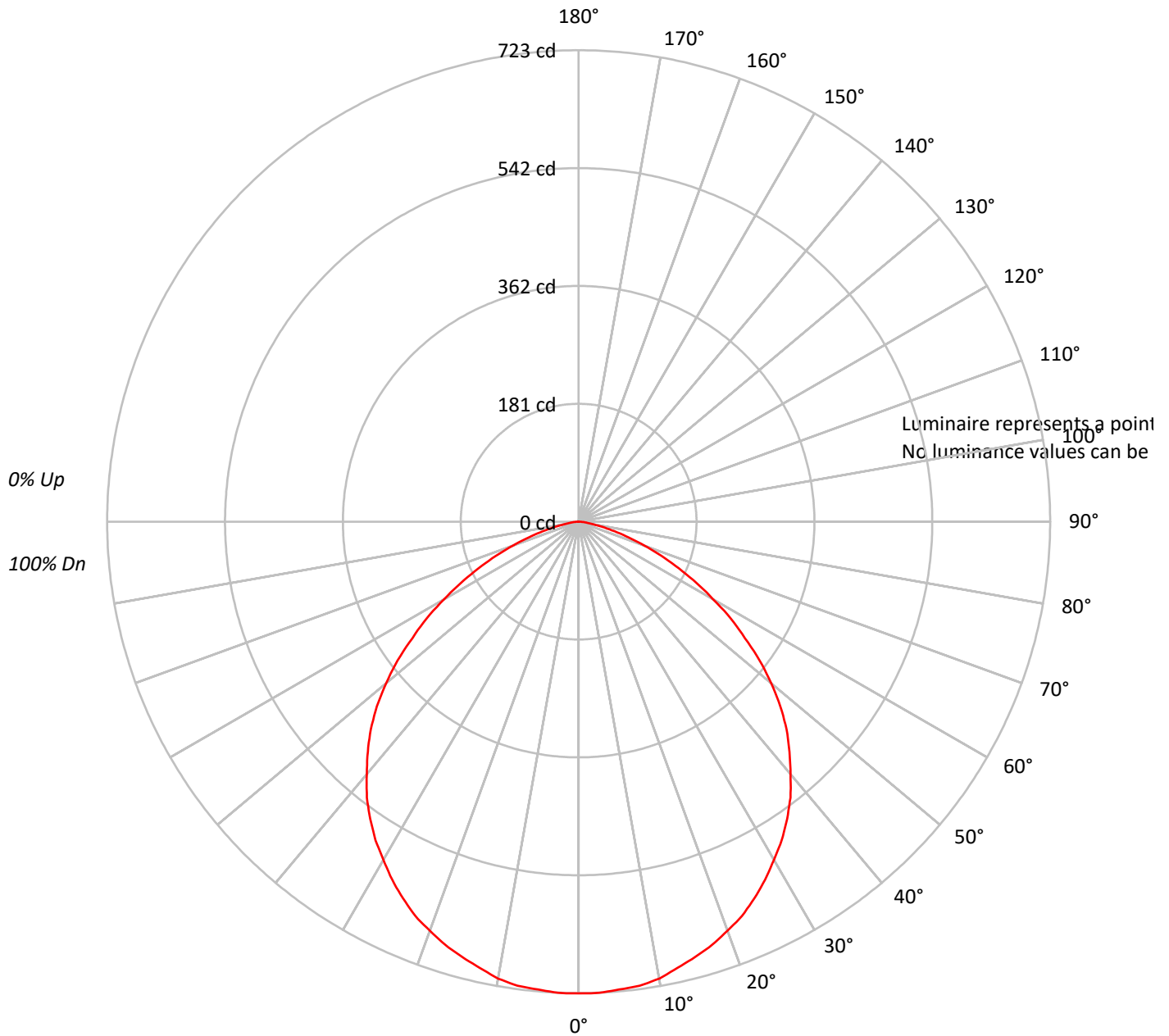
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74		
3	93	83	75	70	90	81	74	69	79	73	68	76	71	67	73	69	65	63		
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55		
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48		
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42		
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37		
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33		
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30		
10	55	42	35	30	54	42	34	30	41	34	29	40	34	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	3.9
10°-20°	195.1	11.0
20°-30°	293.5	16.6
30°-40°	347.8	19.6
40°-50°	346.1	19.5
50°-60°	279.1	15.8
60°-70°	168.8	9.5
70°-80°	62.7	3.5
80°-90°	9.3	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°	557.1	31.5
0°-40°	904.9	51.1
0°-60°	1530.1	86.4
0°-90°	1770.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1770.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	723	
5°	720	69
15°	691	195
25°	637	293
35°	557	348
45°	451	346
55°	311	279
65°	170	169
75°	57	63
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	723.4
2.5°	723.4
5°	720.1
7.5°	717.9
10°	711.5
12.5°	700.8
15°	691.1
17.5°	680.5
20°	667.5
22.5°	654.6
25°	637.4
27.5°	619.2
30°	598.8
32.5°	579.5
35°	557.0
37.5°	533.4
40°	505.4
42.5°	478.6
45°	450.8
47.5°	419.6
50°	385.2
52.5°	349.9
55°	311.2
57.5°	276.9
60°	238.3
62.5°	203.9
65°	169.6
67.5°	137.3
70°	107.3
72.5°	80.5
75°	56.8
77.5°	36.5
80°	21.5
82.5°	12.9
85°	7.5
87.5°	3.2
90°	0.0



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— 0°-180°







(END OF REPORT)