

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: P211575

Luminaire Tested: **LE_4B20D010 EC4B10208030 4LBS1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211575
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 EC4B10208030 4LBS1LI
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH SPECULAR CLEAR 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

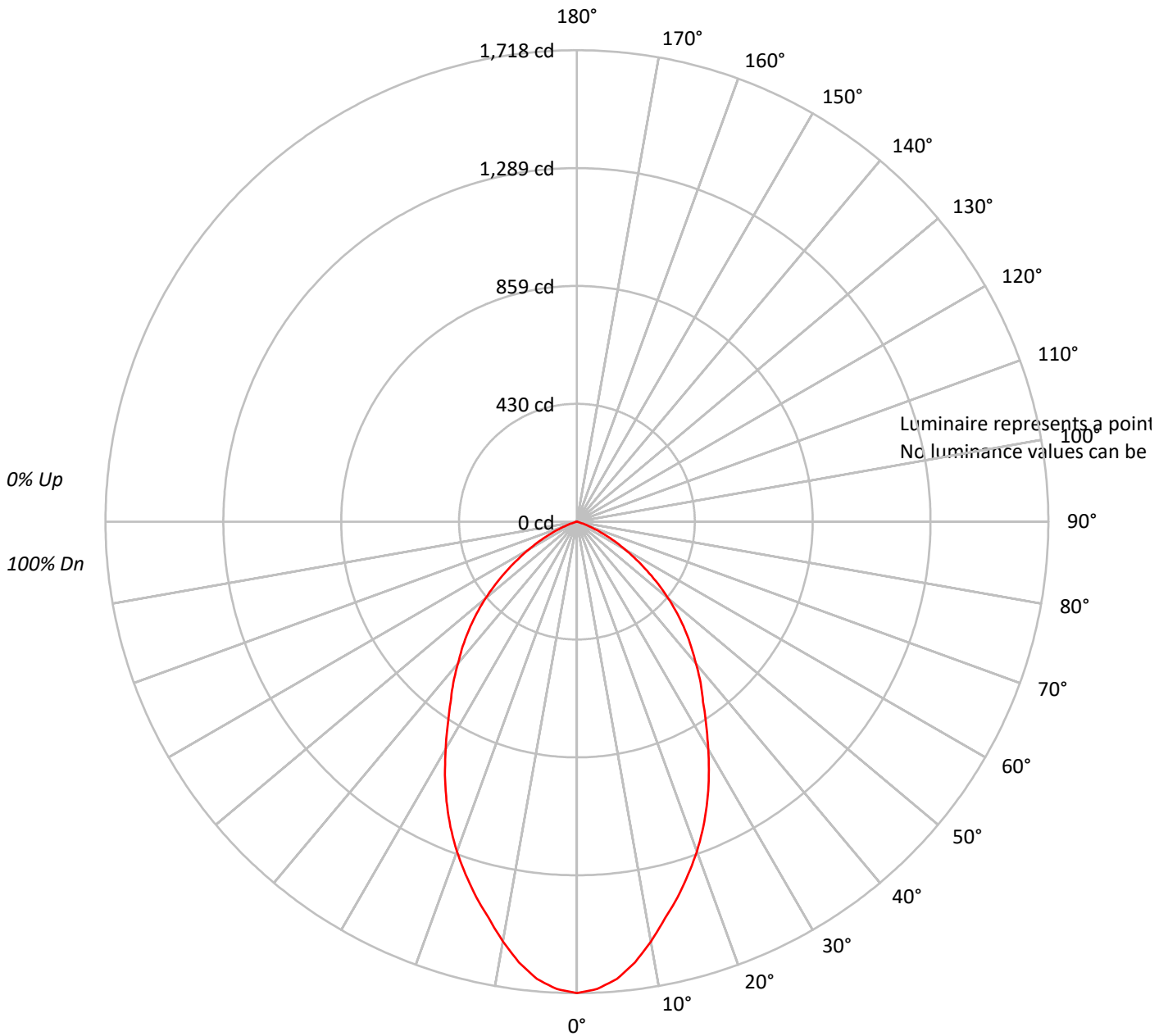
Lumens per Lamp: N/A
Luminaire Lumens: 2406.1 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

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		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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80		
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71		
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63		
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57		
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51		
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46		
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39		
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.8	6.5
10°-20°	397.3	16.5
20°-30°	514.8	21.4
30°-40°	504.4	21.0
40°-50°	427.6	17.8
50°-60°	280.3	11.6
60°-70°	112.7	4.7
70°-80°	12.9	0.5
80°-90°	0.4	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°	1067.9	44.4
0°-40°	1572.3	65.3
0°-60°	2280.2	94.8
0°-90°	2406.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2406.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1718	
5°	1673	156
15°	1417	397
25°	1124	515
35°	802	504
45°	557	428
55°	312	280
65°	109	113
75°	5	13
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1718.0
2.5°	1704.6
5°	1672.7
7.5°	1619.5
10°	1552.9
12.5°	1481.0
15°	1417.1
17.5°	1347.8
20°	1278.6
22.5°	1204.0
25°	1124.0
27.5°	1041.4
30°	956.2
32.5°	876.3
35°	801.7
37.5°	740.4
40°	673.8
42.5°	615.3
45°	556.7
47.5°	495.4
50°	434.2
52.5°	372.9
55°	311.7
57.5°	255.7
60°	202.4
62.5°	154.5
65°	109.2
67.5°	71.9
70°	42.6
72.5°	18.7
75°	5.3
77.5°	2.7
80°	2.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)