

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: P206230

Luminaire Tested: **LD4B20D010 EU4B10209030 4LBPSMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206230
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: LD4B20D010 EU4B10209030 4LBPSMW1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH PLASTIC 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: 1844.3 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

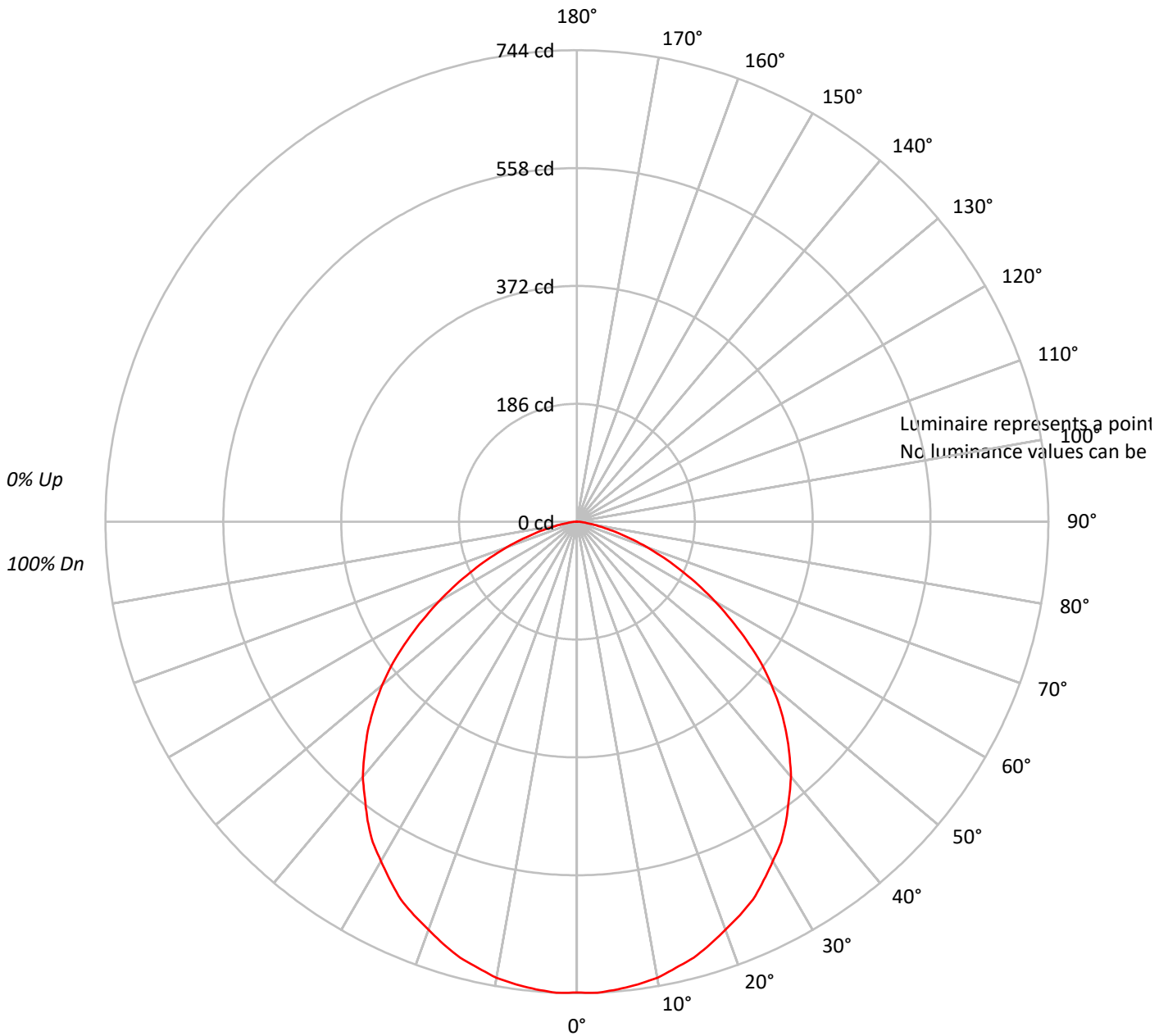
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86				86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74				74
3	93	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63				63
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	47				47
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42				42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39	37				37
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33				33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30				30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	3.8
10°-20°	200.7	10.9
20°-30°	302.3	16.4
30°-40°	359.7	19.5
40°-50°	359.0	19.5
50°-60°	291.9	15.8
60°-70°	179.6	9.7
70°-80°	69.6	3.8
80°-90°	11.1	0.6
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°	573.4	31.1
0°-40°	933.0	50.6
0°-60°	1584.0	85.9
0°-90°	1844.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1844.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	743	
5°	741	70
15°	712	201
25°	658	302
35°	576	360
45°	467	359
55°	327	292
65°	180	180
75°	63	70
85°	9	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	743.1
2.5°	744.2
5°	740.9
7.5°	736.5
10°	731.1
12.5°	721.2
15°	712.5
17.5°	699.4
20°	685.2
22.5°	672.1
25°	657.9
27.5°	638.2
30°	618.5
32.5°	599.9
35°	575.9
37.5°	549.7
40°	525.6
42.5°	496.1
45°	466.6
47.5°	434.9
50°	401.0
52.5°	366.1
55°	326.7
57.5°	288.5
60°	251.3
62.5°	215.3
65°	180.3
67.5°	147.5
70°	116.9
72.5°	88.5
75°	63.4
77.5°	41.5
80°	25.1
82.5°	15.3
85°	8.7
87.5°	4.4
90°	0.0



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— 0°-180°







(END OF REPORT)