

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: P206226

Luminaire Tested: **LD4B20D010 EU4B10208040 4LBPSMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206226
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 EU4B10208040 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: 2236.5 lumens
Efficiency: N/A
Efficacy: 107.5 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

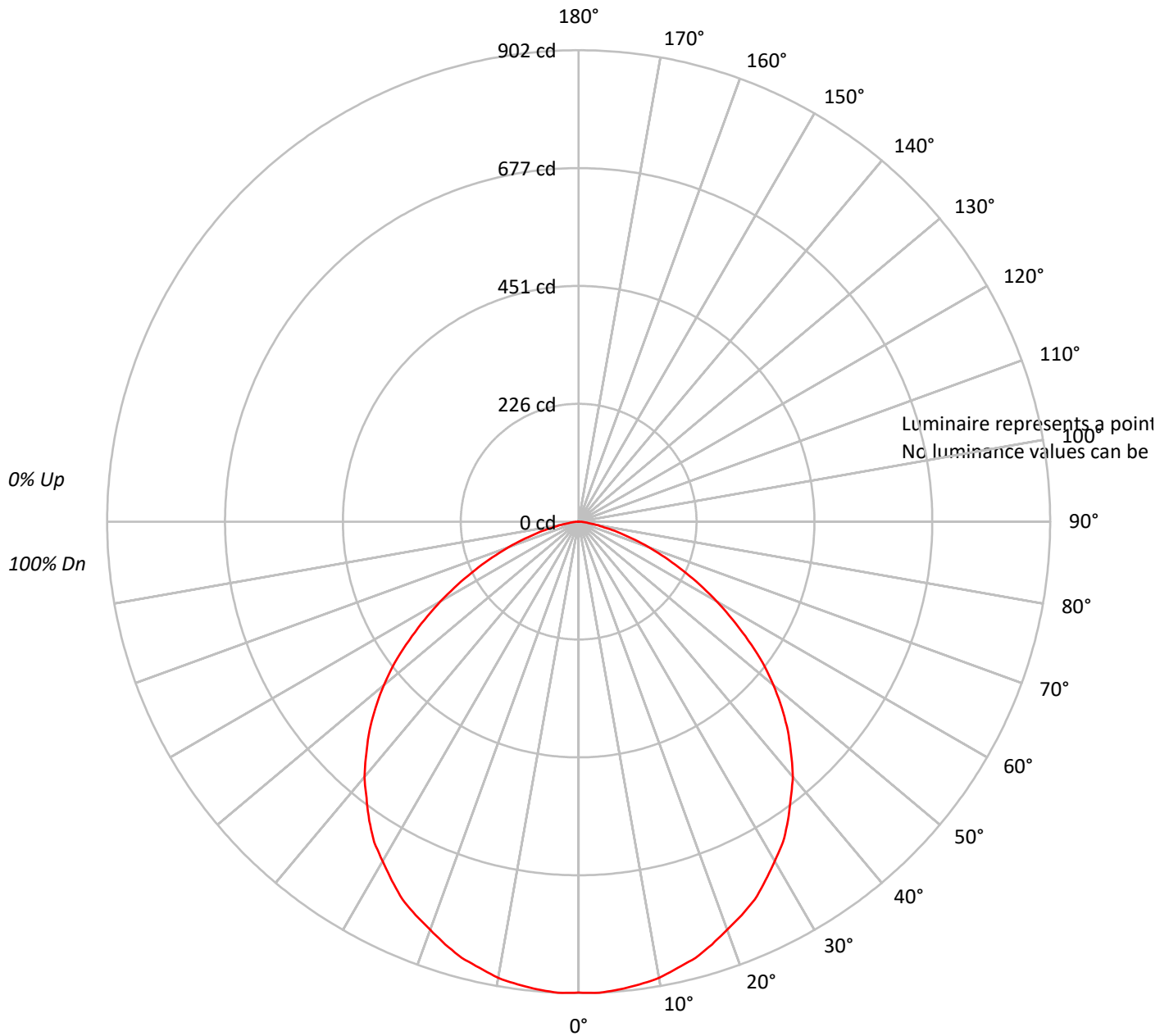
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	3.8
10°-20°	243.4	10.9
20°-30°	366.5	16.4
30°-40°	436.1	19.5
40°-50°	435.3	19.5
50°-60°	354.0	15.8
60°-70°	217.8	9.7
70°-80°	84.4	3.8
80°-90°	13.5	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°	695.3	31.1
0°-40°	1131.4	50.6
0°-60°	1920.7	85.9
0°-90°	2236.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2236.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	901	
5°	898	85
15°	864	243
25°	798	367
35°	698	436
45°	566	435
55°	396	354
65°	219	218
75°	77	84
85°	11	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	901.1
2.5°	902.4
5°	898.4
7.5°	893.1
10°	886.5
12.5°	874.6
15°	864.0
17.5°	848.1
20°	830.8
22.5°	814.9
25°	797.7
27.5°	773.9
30°	750.0
32.5°	727.5
35°	698.3
37.5°	666.5
40°	637.4
42.5°	601.6
45°	565.8
47.5°	527.4
50°	486.3
52.5°	443.9
55°	396.2
57.5°	349.8
60°	304.8
62.5°	261.0
65°	218.6
67.5°	178.9
70°	141.8
72.5°	107.3
75°	76.9
77.5°	50.4
80°	30.5
82.5°	18.6
85°	10.6
87.5°	5.3
90°	0.0



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— 0°-180°







(END OF REPORT)