

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: P205714

Luminaire Tested: **LD4B20D010 EU4B10209727 4LBSH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P205714
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 EU4B10209727 4LBSH1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH SEMI-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: 1420.5 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

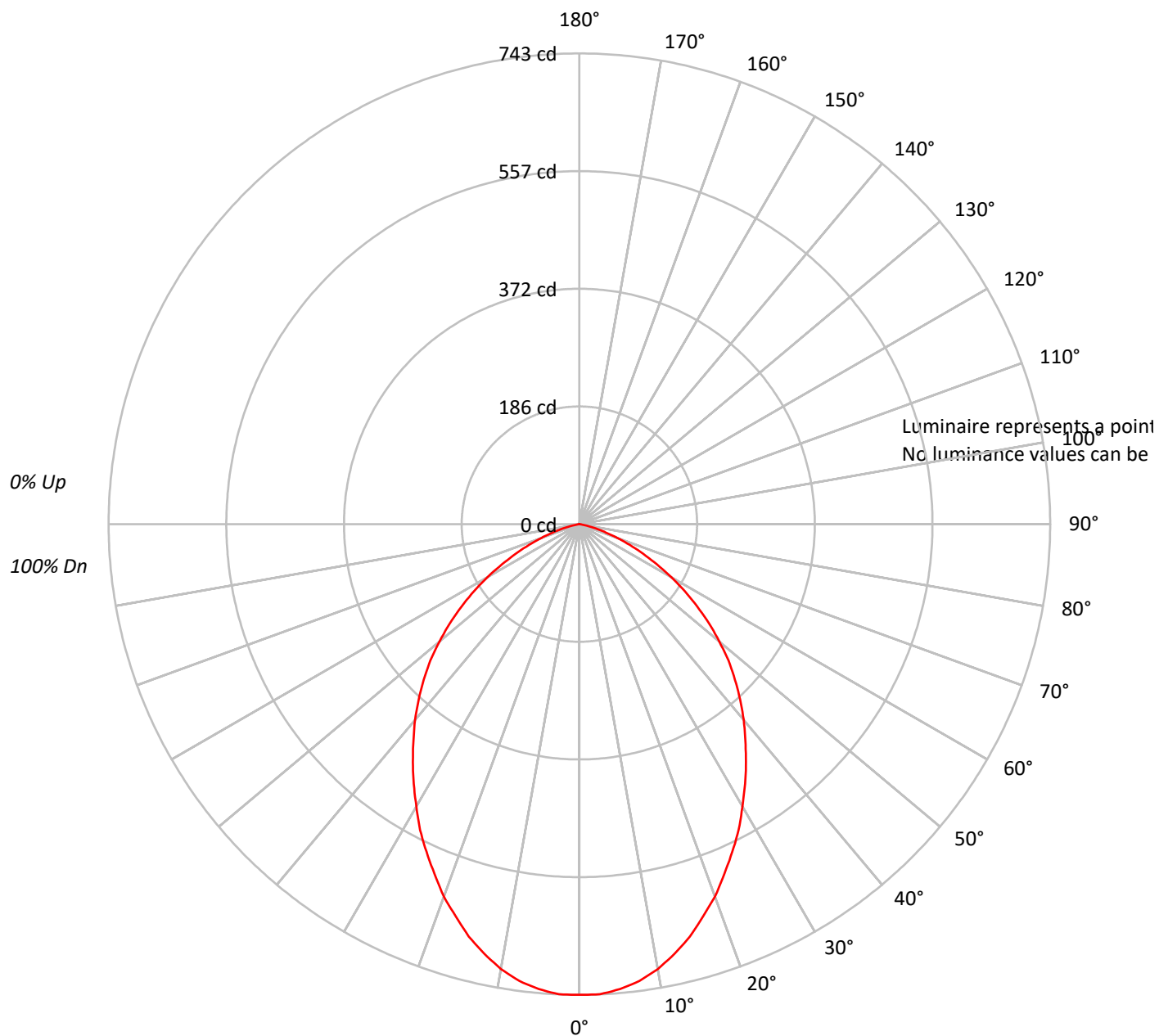
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	111	107	104	101	108	105	102	99		101	98	96			97	95	93			93
2	102	96	90	85	100	94	88	84		90	86	82			87	83	80			84
3	95	85	78	73	92	84	77	72		81	75	71			78	74	70			76
4	87	77	69	63	85	75	68	63		73	67	62			71	65	61			69
5	81	69	61	55	79	68	61	55		66	60	55			64	59	54			63
6	75	63	55	49	73	62	54	49		60	54	49			59	53	48			57
7	70	58	50	44	68	57	49	44		55	49	44			54	48	43			53
8	65	53	45	40	64	52	45	40		51	44	39			50	44	39			49
9	61	49	41	36	60	48	41	36		47	40	36			46	40	36			45
10	58	45	38	33	56	45	38	33		44	37	33			43	37	33			42

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	4.9
10°-20°	189.1	13.3
20°-30°	262.7	18.5
30°-40°	286.6	20.2
40°-50°	267.4	18.8
50°-60°	203.0	14.3
60°-70°	111.1	7.8
70°-80°	30.6	2.2
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°	521.4	36.7
0°-40°	808.0	56.9
0°-60°	1278.4	90.0
0°-90°	1420.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1420.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	743	
5°	737	70
15°	674	189
25°	571	263
35°	458	287
45°	347	267
55°	227	203
65°	111	111
75°	27	31
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	742.9
2.5°	742.9
5°	736.7
7.5°	727.3
10°	713.2
12.5°	694.4
15°	674.1
17.5°	649.1
20°	625.6
22.5°	597.5
25°	570.9
27.5°	544.3
30°	514.6
32.5°	486.4
35°	458.3
37.5°	430.1
40°	403.5
42.5°	375.4
45°	347.2
47.5°	319.1
50°	287.8
52.5°	258.1
55°	226.8
57.5°	197.1
60°	167.4
62.5°	137.6
65°	111.0
67.5°	86.0
70°	64.1
72.5°	43.8
75°	26.6
77.5°	12.5
80°	3.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)