

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: P206538

Luminaire Tested: **LD4B20D010 EU4B10209024 4LBCSMMS1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206538
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 EU4B10209024 4LBSCMMS1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH CAST MATTE BLACK 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: 1290.0 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

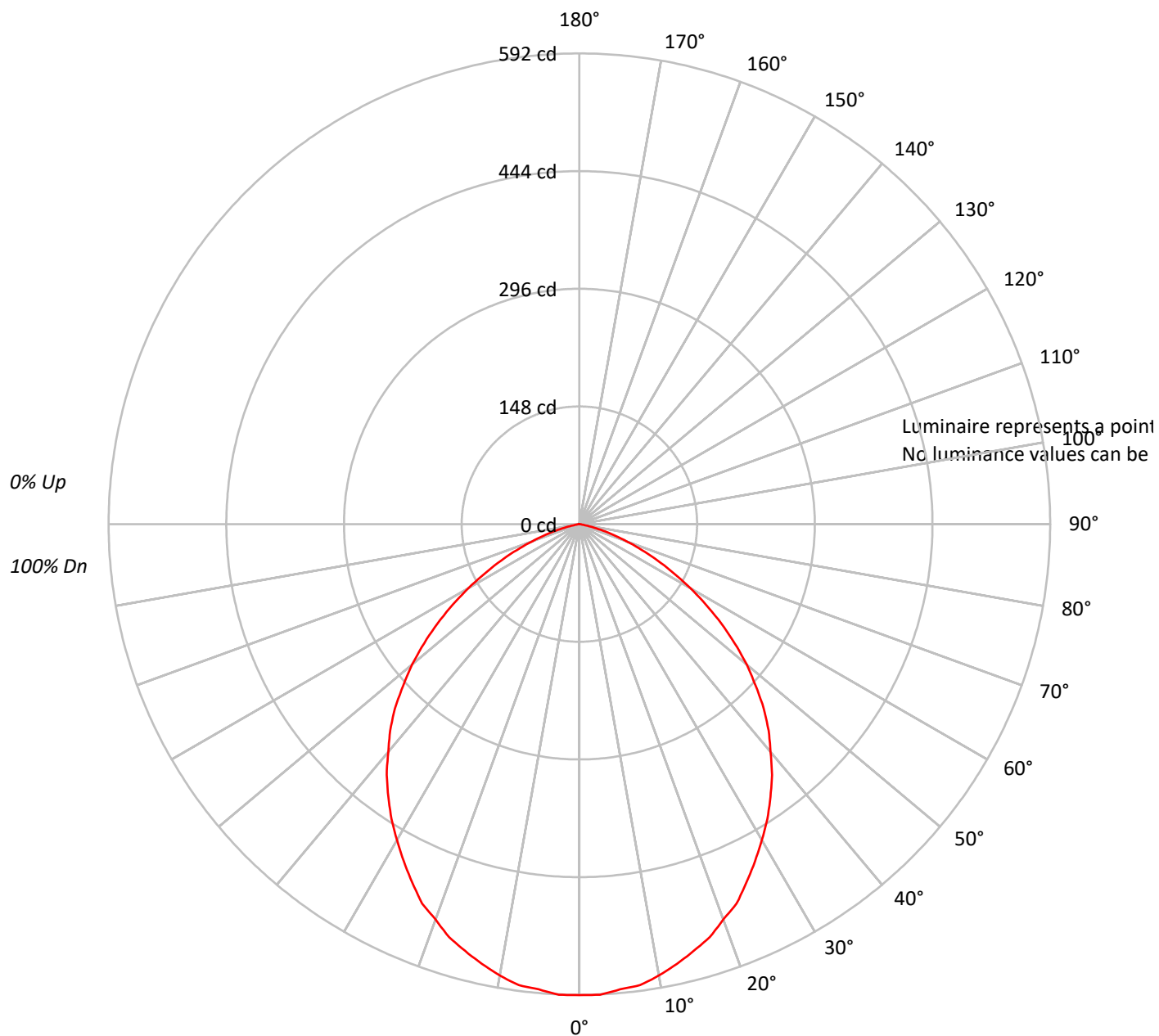
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





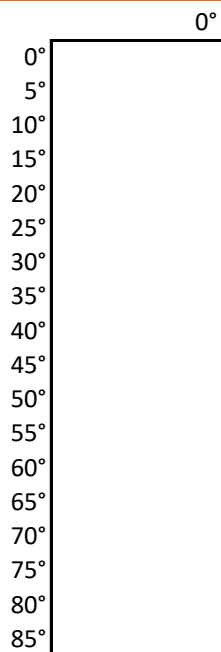
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	111	107	103	100	108	105	101	98	100	98	95		97	94	92		93
2	102	95	89	84	100	93	88	83	90	85	81		86	83	79		83
3	94	85	77	72	92	83	76	71	80	74	70		77	73	69		75
4	87	76	68	62	84	74	67	61	72	66	61		70	64	60		68
5	80	68	60	54	78	67	59	54	65	58	53		63	57	53		61
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		56
7	69	56	48	42	67	56	48	42	54	47	42		53	46	42		51
8	64	52	44	38	63	51	43	38	50	43	38		48	42	38		47
9	60	48	40	35	59	47	40	34	46	39	34		45	39	34		44
10	57	44	36	31	55	43	36	31	43	36	31		42	35	31		41

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.8	4.3
10°-20°	156.6	12.1
20°-30°	228.8	17.7
30°-40°	261.7	20.3
40°-50°	251.5	19.5
50°-60°	194.2	15.1
60°-70°	108.4	8.4
70°-80°	31.5	2.4
80°-90°	1.4	0.1
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°	441.3	34.2
0°-40°	703.0	54.5
0°-60°	1148.7	89.0
0°-90°	1290.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1290.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	592	
5°	587	56
15°	556	157
25°	497	229
35°	419	262
45°	328	252
55°	218	194
65°	108	108
75°	28	32
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	592.4
2.5°	592.4
5°	587.4
7.5°	584.9
10°	576.5
12.5°	566.5
15°	555.7
17.5°	544.8
20°	529.0
22.5°	516.5
25°	497.3
27.5°	478.1
30°	458.9
32.5°	439.7
35°	418.8
37.5°	398.0
40°	373.8
42.5°	352.1
45°	327.9
47.5°	300.4
50°	274.5
52.5°	246.1
55°	217.8
57.5°	188.6
60°	161.0
62.5°	133.5
65°	108.5
67.5°	85.1
70°	63.4
72.5°	44.2
75°	27.5
77.5°	14.2
80°	5.0
82.5°	1.7
85°	0.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)