

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: P207051

Luminaire Tested: **LD4B20D010 EU4B10208040 4LBWMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207051
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 4LBWMW1
Description: PORTFOLIO 4 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT
WIDE DISTRIBUTION WITH 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: 1832.0 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

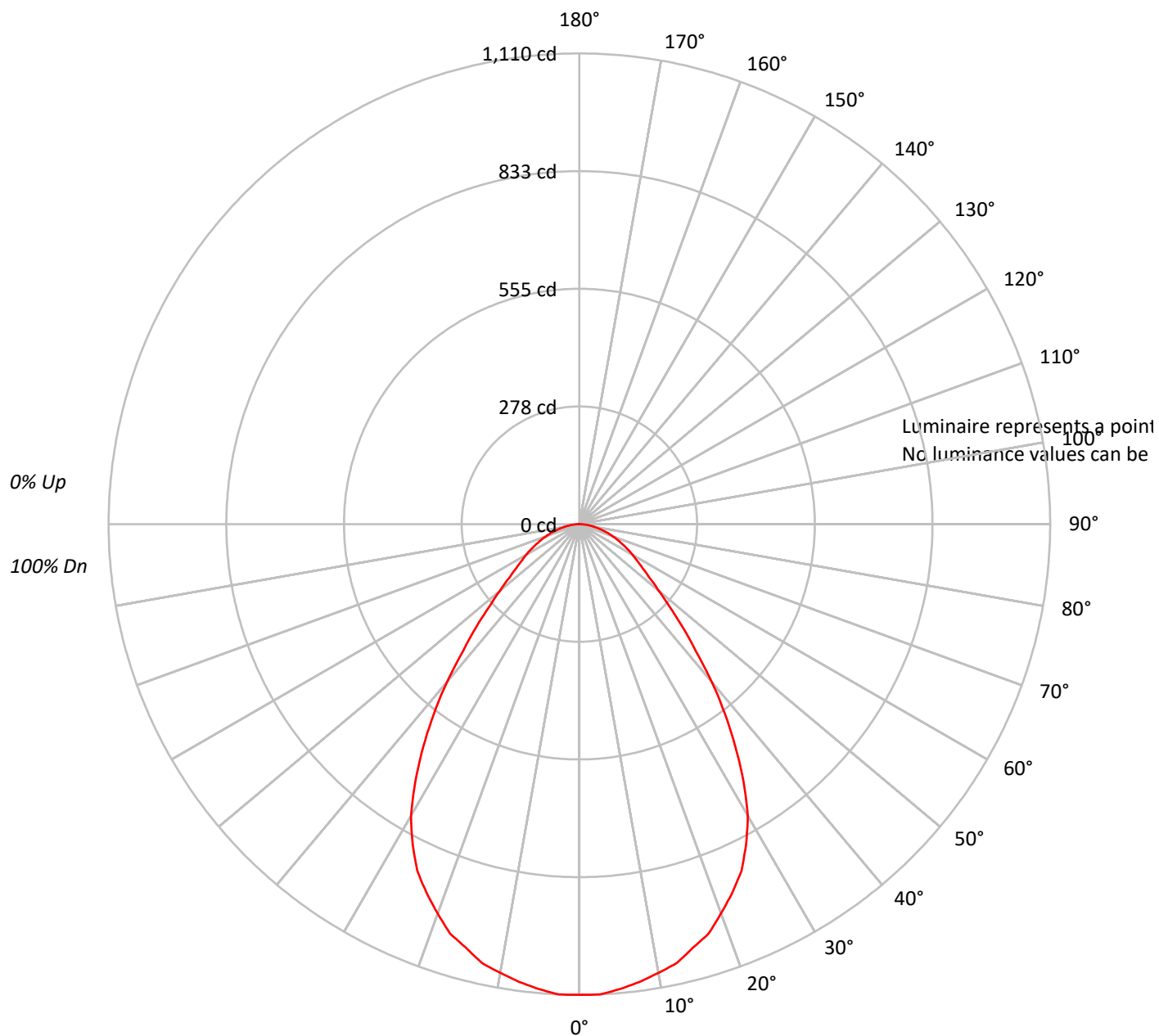
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





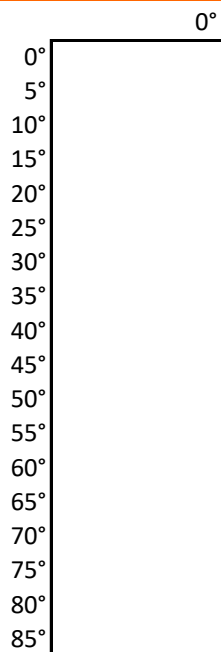
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101	108	105	102	99		101	98	96		97	95	93		93	92	90
2	103	96	91	86	101	94	89	85		91	87	83		88	84	81		85	82	80
3	96	87	80	75	93	85	79	74		83	77	73		80	76	72		78	74	71
4	89	79	72	66	87	78	71	66		75	69	65		73	68	64		71	67	63
5	83	72	64	59	81	71	64	58		69	63	58		67	62	57		65	61	57
6	78	66	58	53	76	65	58	53		64	57	52		62	56	52		60	55	51
7	73	61	53	48	71	60	53	48		59	52	47		57	51	47		56	51	47
8	68	56	49	44	67	56	49	44		54	48	43		53	47	43		52	47	43
9	64	52	45	40	63	52	45	40		51	44	40		50	44	40		49	43	39
10	61	49	42	37	59	48	41	37		47	41	37		46	41	37		46	40	36

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.2	5.7
10°-20°	291.5	15.9
20°-30°	411.9	22.5
30°-40°	399.0	21.8
40°-50°	269.2	14.7
50°-60°	167.1	9.1
60°-70°	111.7	6.1
70°-80°	61.1	3.3
80°-90°	16.2	0.9
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°	807.6	44.1
0°-40°	1206.7	65.9
0°-60°	1643.0	89.7
0°-90°	1832.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1832.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1110	
5°	1101	104
15°	1034	291
25°	903	412
35°	642	399
45°	345	269
55°	183	167
65°	112	112
75°	57	61
85°	14	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1110.1
2.5°	1110.1
5°	1100.6
7.5°	1088.7
10°	1074.5
12.5°	1060.2
15°	1034.1
17.5°	1012.7
20°	977.0
22.5°	941.3
25°	903.3
27.5°	851.0
30°	794.0
32.5°	720.3
35°	641.8
37.5°	563.4
40°	484.9
42.5°	406.5
45°	344.7
47.5°	287.6
50°	244.8
52.5°	209.2
55°	183.0
57.5°	161.6
60°	145.0
62.5°	128.4
65°	111.7
67.5°	97.5
70°	83.2
72.5°	71.3
75°	57.1
77.5°	45.2
80°	33.3
82.5°	23.8
85°	14.3
87.5°	4.8
90°	0.0



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— 0°-180°







(END OF REPORT)