

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: P207880

Luminaire Tested: **LD4B20D010 EU4B10209035 4LBNB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207880
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 EU4B10209035 4LBNB1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW DISTRIBUTION WITH SPECULAR 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: 680.6 lumens
Efficiency: N/A
Efficacy: 32.7 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.62 / 0.79
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

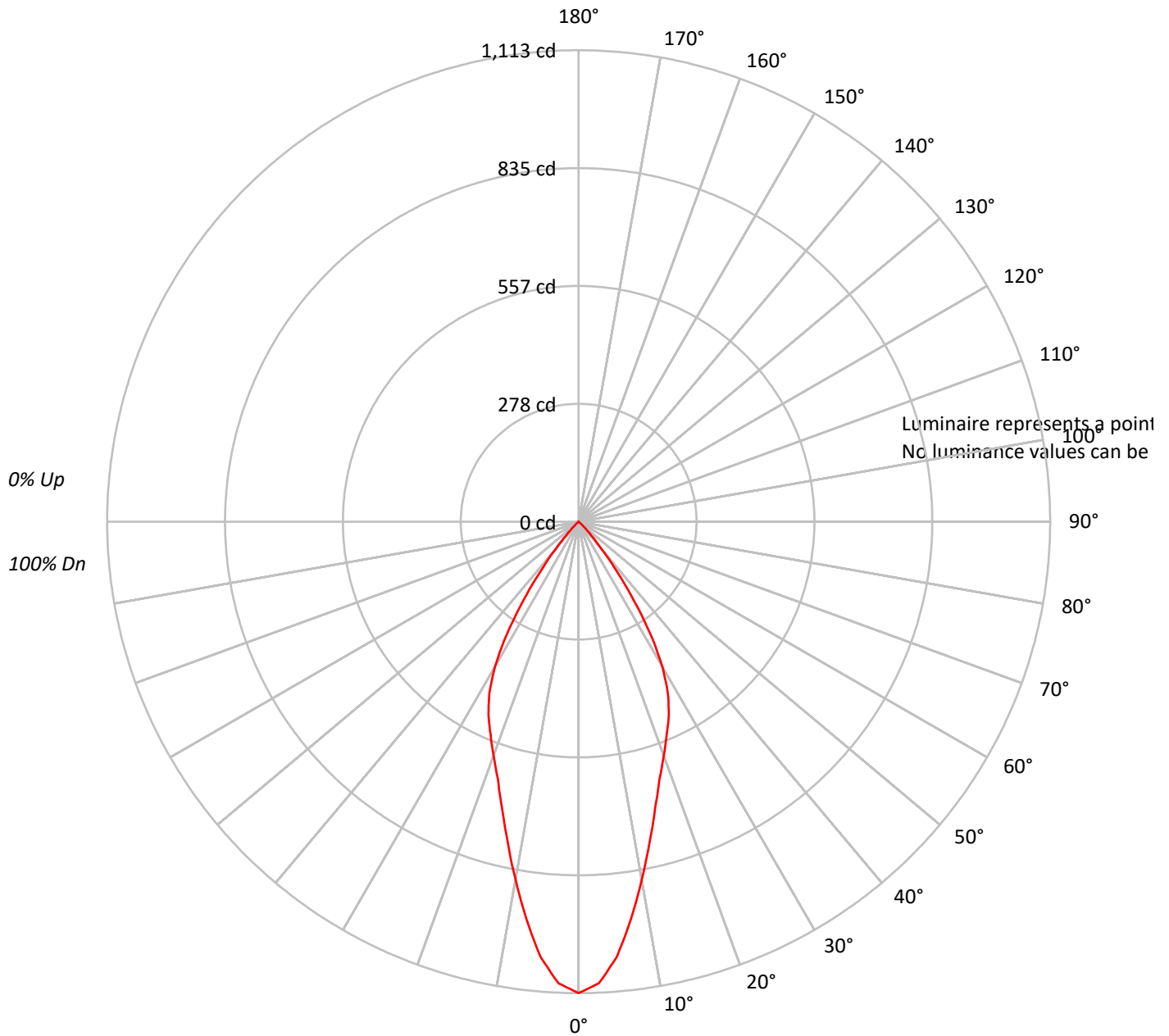
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





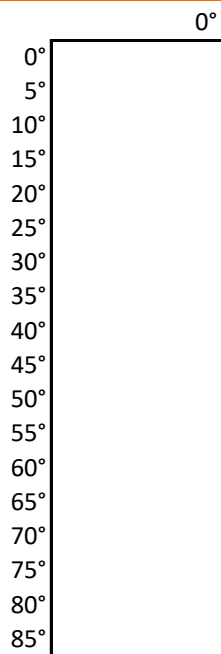
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	114	111	109	107	111	109	107	105		105	103	102			101	100	99			98
2	109	104	100	97	106	102	99	96		99	96	94			96	94	92			93
3	104	98	93	89	102	96	92	88		94	90	87			91	88	86			89
4	99	92	86	82	97	90	86	82		88	84	81			86	83	80			85
5	94	86	81	77	92	85	80	76		84	79	76			82	78	75			80
6	90	81	76	72	88	81	75	71		79	74	71			78	74	70			76
7	86	77	71	67	84	76	71	67		75	70	67			74	69	66			73
8	82	73	67	63	80	72	67	63		71	66	63			70	66	62			69
9	78	69	63	60	77	68	63	59		67	63	59			67	62	59			66
10	75	65	60	56	74	65	60	56		64	59	56			63	59	56			63

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.7	13.6
10°-20°	196.7	28.9
20°-30°	228.2	33.5
30°-40°	142.9	21.0
40°-50°	20.1	3.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	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°	517.6	76.1
0°-40°	660.5	97.0
0°-60°	680.6	100.0
0°-90°	680.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	680.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1113	
5°	1031	93
15°	699	197
25°	504	228
35°	229	143
45°	18	20
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1112.8
2.5°	1090.9
5°	1031.2
7.5°	945.6
10°	858.0
12.5°	774.4
15°	698.8
17.5°	635.1
20°	587.3
22.5°	543.5
25°	503.7
27.5°	455.9
30°	394.2
32.5°	316.5
35°	228.9
37.5°	149.3
40°	85.6
42.5°	43.8
45°	17.9
47.5°	4.0
50°	0.0
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)