

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: P208281

Luminaire Tested: **LD4B20D010 EU4B10208035 4LBNI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208281
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 EU4B10208035 4LBNLI1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW DISTRIBUTION WITH 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: 1527.7 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

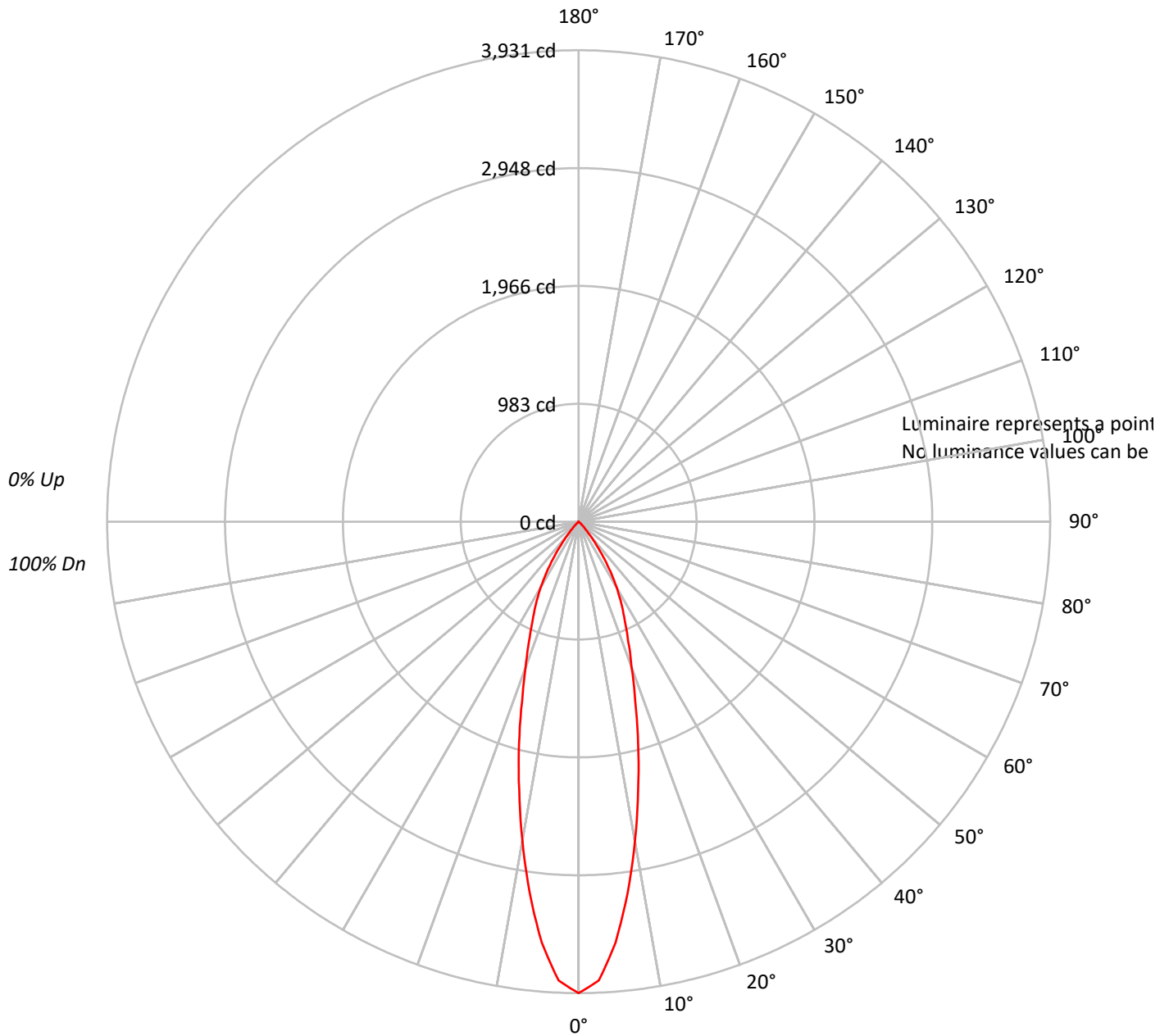
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	114	112	110	108	112	110	108	106		106	104	103		102	101	100		99	98	97
2	109	105	102	99	107	103	100	98		100	98	95		97	95	93		95	93	92
3	105	99	95	92	103	98	94	91		95	92	89		93	90	88		91	89	87
4	101	94	89	86	99	93	88	85		91	87	84		89	86	83		87	84	82
5	96	89	84	80	95	88	84	80		87	82	79		85	81	79		83	80	78
6	92	85	80	76	91	84	79	76		83	78	75		81	78	75		80	77	74
7	89	81	76	72	88	80	75	72		79	75	71		78	74	71		77	73	71
8	85	77	72	68	84	77	72	68		76	71	68		75	71	68		74	70	67
9	82	74	69	65	81	73	68	65		72	68	65		72	68	65		71	67	64
10	79	71	66	62	78	70	65	62		69	65	62		69	65	62		68	64	62

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.8	20.3
10°-20°	530.4	34.7
20°-30°	421.5	27.6
30°-40°	223.1	14.6
40°-50°	38.4	2.5
50°-60°	2.9	0.2
60°-70°	1.5	0.1
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°	1261.8	82.6
0°-40°	1484.9	97.2
0°-60°	1526.2	99.9
0°-90°	1527.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1527.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3931	
5°	3524	310
15°	1918	530
25°	908	422
35°	353	223
45°	40	38
55°	2	3
65°	2	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3931.4
2.5°	3830.2
5°	3524.4
7.5°	3124.4
10°	2700.9
12.5°	2291.5
15°	1917.5
17.5°	1569.3
20°	1291.6
22.5°	1079.9
25°	908.1
27.5°	769.3
30°	630.5
32.5°	489.4
35°	352.9
37.5°	232.9
40°	138.8
42.5°	80.0
45°	40.0
47.5°	14.1
50°	4.7
52.5°	4.7
55°	2.4
57.5°	2.4
60°	2.4
62.5°	2.4
65°	2.4
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)