

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: P207257

Luminaire Tested: **LD4B20D010 EU4B10208040 4LBMWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207257
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 4LBMWH1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
MEDIUM DISTRIBUTION WITH WHEAT 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: 1610.7 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.87
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

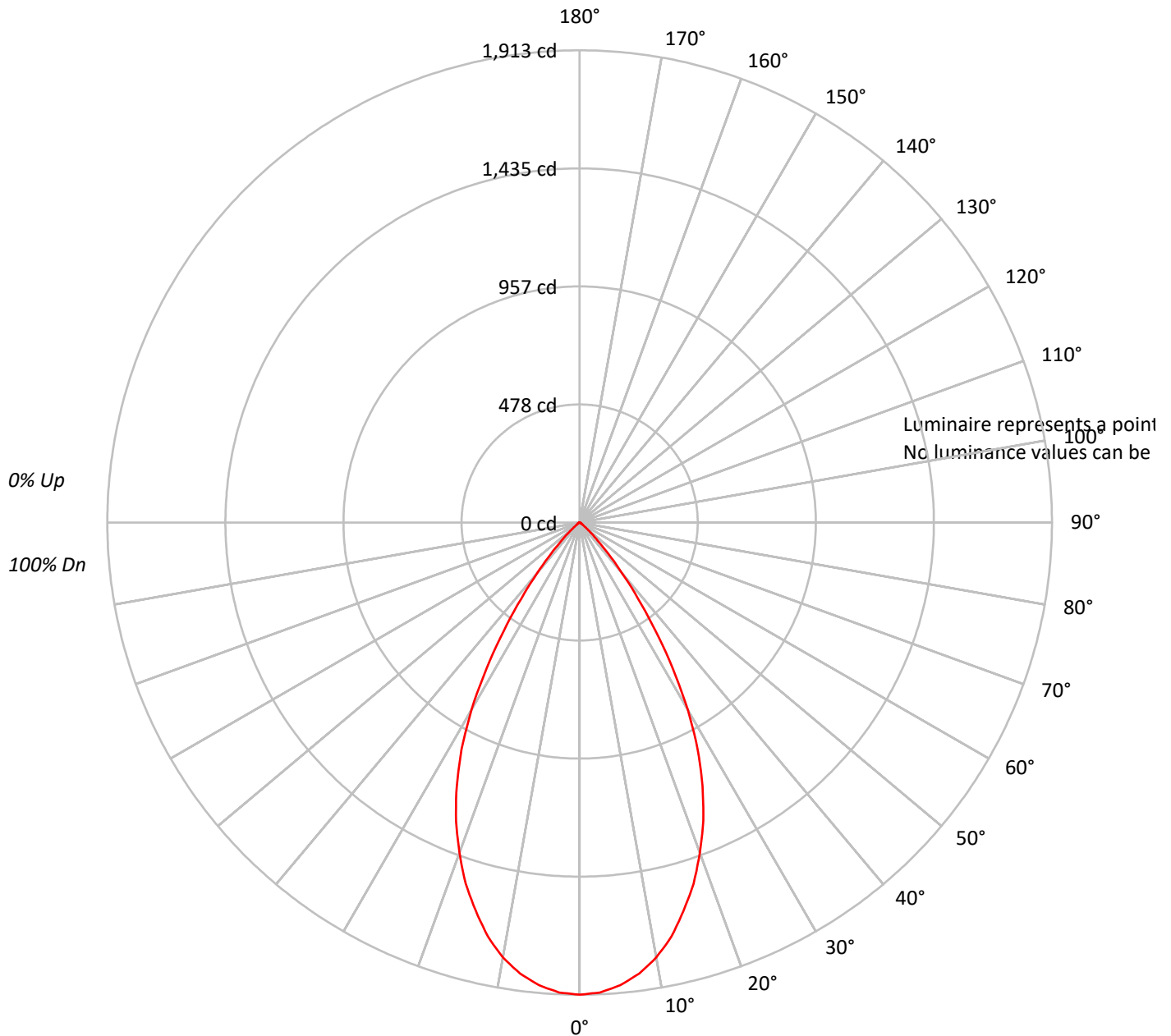
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P207257

CATALOG NUMBER: LD4B20D010 EU4B10208040 4LBMWH1

Luminous Intensity Polar Plot





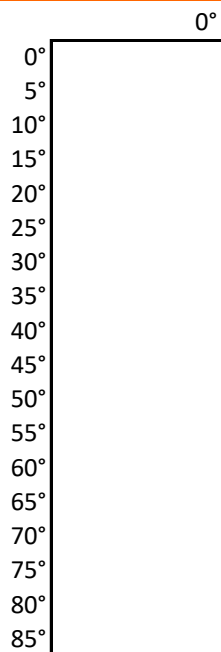
TEST NUMBER: P207257

CATALOG NUMBER: LD4B20D010 EU4B10208040 4LBMWH1

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			0
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			100
1	114	111	108	106		111	109	106	105		105	103	101			101	100	98			94
2	108	103	99	96		106	102	98	95		98	95	93			95	93	91			87
3	103	96	91	88		101	95	90	87		92	89	85			90	87	84			81
4	98	90	85	81		96	89	84	80		87	83	79			85	81	78			76
5	93	84	79	74		91	84	78	74		82	77	73			80	76	73			71
6	88	79	73	69		87	79	73	69		77	72	68			76	71	68			66
7	84	75	69	65		82	74	68	64		73	68	64			72	67	64			62
8	80	70	64	60		79	70	64	60		69	64	60			68	63	60			58
9	76	66	61	57		75	66	60	57		65	60	56			64	60	56			55
10	73	63	57	53		72	62	57	53		62	57	53			61	56	53			52

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P207257

CATALOG NUMBER: LD4B20D010 EU4B10208040 4LBMWH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.7	11.0
10°-20°	454.3	28.2
20°-30°	533.0	33.1
30°-40°	337.3	20.9
40°-50°	90.3	5.6
50°-60°	12.6	0.8
60°-70°	4.7	0.3
70°-80°	1.6	0.1
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°	1164.1	72.3
0°-40°	1501.4	93.2
0°-60°	1604.4	99.6
0°-90°	1610.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1610.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1913	
5°	1882	177
15°	1627	454
25°	1178	533
35°	535	337
45°	102	90
55°	12	13
65°	5	5
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P207257

CATALOG NUMBER: LD4B20D010 EU4B10208040 4LBMWH1

CANDELA DISTRIBUTION (FULL):

	0°
0°	1912.9
2.5°	1905.8
5°	1882.0
7.5°	1843.9
10°	1789.2
12.5°	1717.8
15°	1627.4
17.5°	1534.6
20°	1422.8
22.5°	1308.6
25°	1177.7
27.5°	1035.0
30°	875.6
32.5°	701.9
35°	535.3
37.5°	387.8
40°	266.5
42.5°	171.3
45°	102.3
47.5°	57.1
50°	30.9
52.5°	16.7
55°	11.9
57.5°	9.5
60°	7.1
62.5°	7.1
65°	4.8
67.5°	2.4
70°	2.4
72.5°	2.4
75°	2.4
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)