

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: P207984

Luminaire Tested: **LD4B20D010 EU4B10209040 4LBNMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207984
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 EU4B10209040 4LBNMW1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW 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: 1253.4 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.95
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

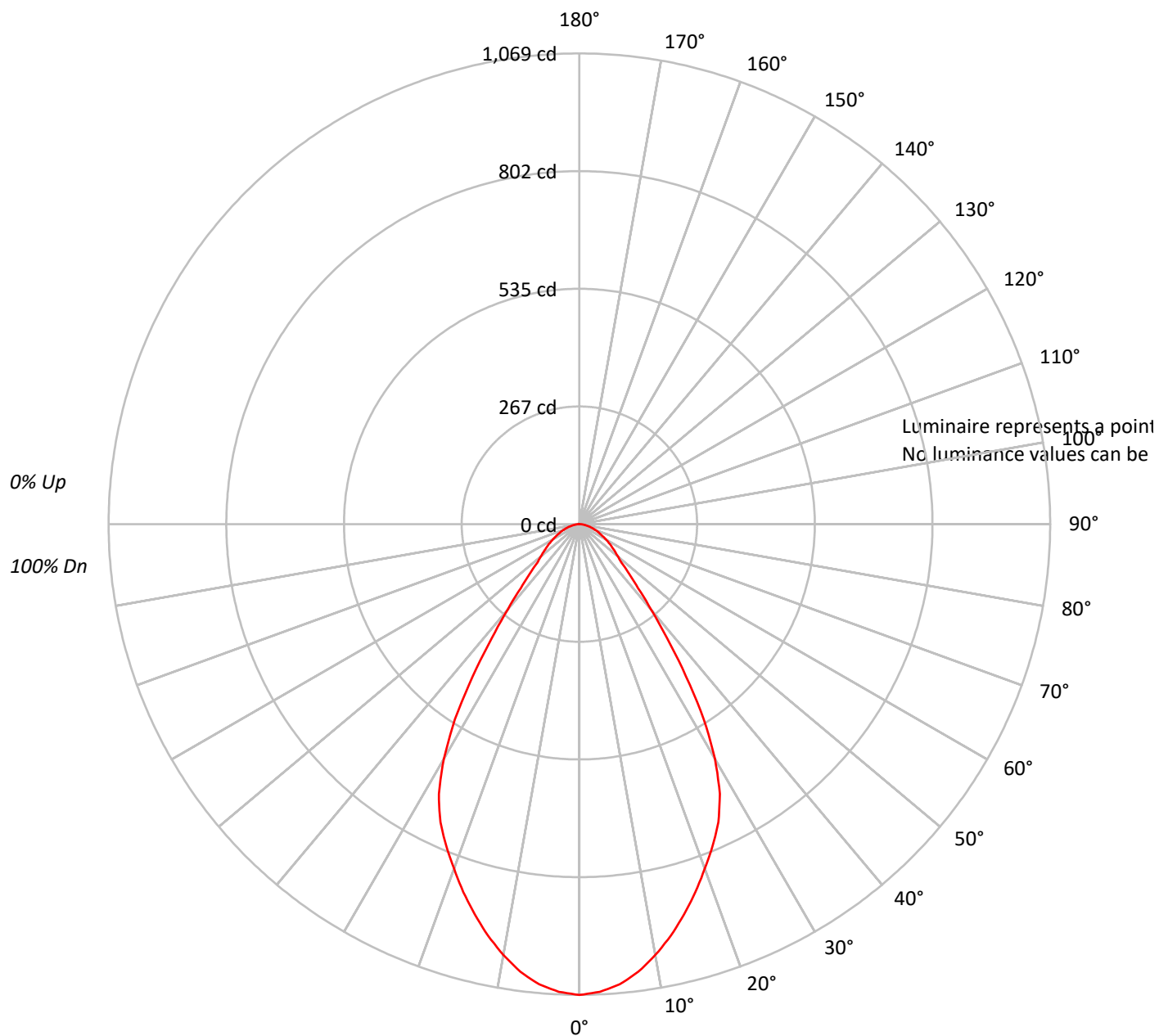
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P207984

CATALOG NUMBER: LD4B20D010 EU4B10209040 4LBNMW1

Luminous Intensity Polar Plot





TEST NUMBER: P207984

CATALOG NUMBER: LD4B20D010 EU4B10209040 4LBNMW1

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	112	109	105	103	109	106	104	101	102	100	98		98	97	95		95
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88
3	98	90	84	80	96	89	83	79	86	82	78		84	80	76		81
4	92	83	76	71	90	82	76	71	80	74	70		78	73	69		76
5	87	77	70	65	85	76	69	64	74	68	64		72	67	63		70
6	82	71	64	59	80	70	64	59	69	63	58		67	62	58		66
7	77	66	59	54	75	65	59	54	64	58	54		63	57	53		62
8	73	62	55	50	71	61	55	50	60	54	50		59	53	49		58
9	69	58	51	46	68	57	51	46	56	50	46		55	50	46		54
10	65	54	48	43	64	54	47	43	53	47	43		52	47	43		51

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P207984

CATALOG NUMBER: LD4B20D010 EU4B10209040 4LBNMW1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.4	7.8
10°-20°	257.4	20.5
20°-30°	338.7	27.0
30°-40°	263.7	21.0
40°-50°	128.1	10.2
50°-60°	80.9	6.5
60°-70°	52.2	4.2
70°-80°	27.3	2.2
80°-90°	6.8	0.5
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°	694.5	55.4
0°-40°	958.2	76.4
0°-60°	1167.2	93.1
0°-90°	1253.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1253.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1069	
5°	1049	98
15°	918	257
25°	747	339
35°	422	264
45°	159	128
55°	90	81
65°	52	52
75°	26	27
85°	6	7
90°	0	



TEST NUMBER: P207984

CATALOG NUMBER: LD4B20D010 EU4B10209040 4LBNMW1

CANDELA DISTRIBUTION (FULL):

0°	
0°	1069.3
2.5°	1063.3
5°	1049.4
7.5°	1025.5
10°	993.6
12.5°	957.8
15°	917.9
17.5°	876.1
20°	832.3
22.5°	790.5
25°	746.7
27.5°	690.9
30°	615.3
32.5°	525.7
35°	422.1
37.5°	326.6
40°	252.9
42.5°	197.1
45°	159.3
47.5°	129.4
50°	113.5
52.5°	101.6
55°	89.6
57.5°	79.6
60°	69.7
62.5°	59.7
65°	51.8
67.5°	45.8
70°	37.8
72.5°	31.9
75°	25.9
77.5°	19.9
80°	13.9
82.5°	10.0
85°	6.0
87.5°	2.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)