

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: P205911

Luminaire Tested: **LD4B20D010 EU4B10208027 4LBSGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P205911
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 EU4B10208027 4LBSGPH1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH GRAPHITE HAZE 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: 1745.9 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.26
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

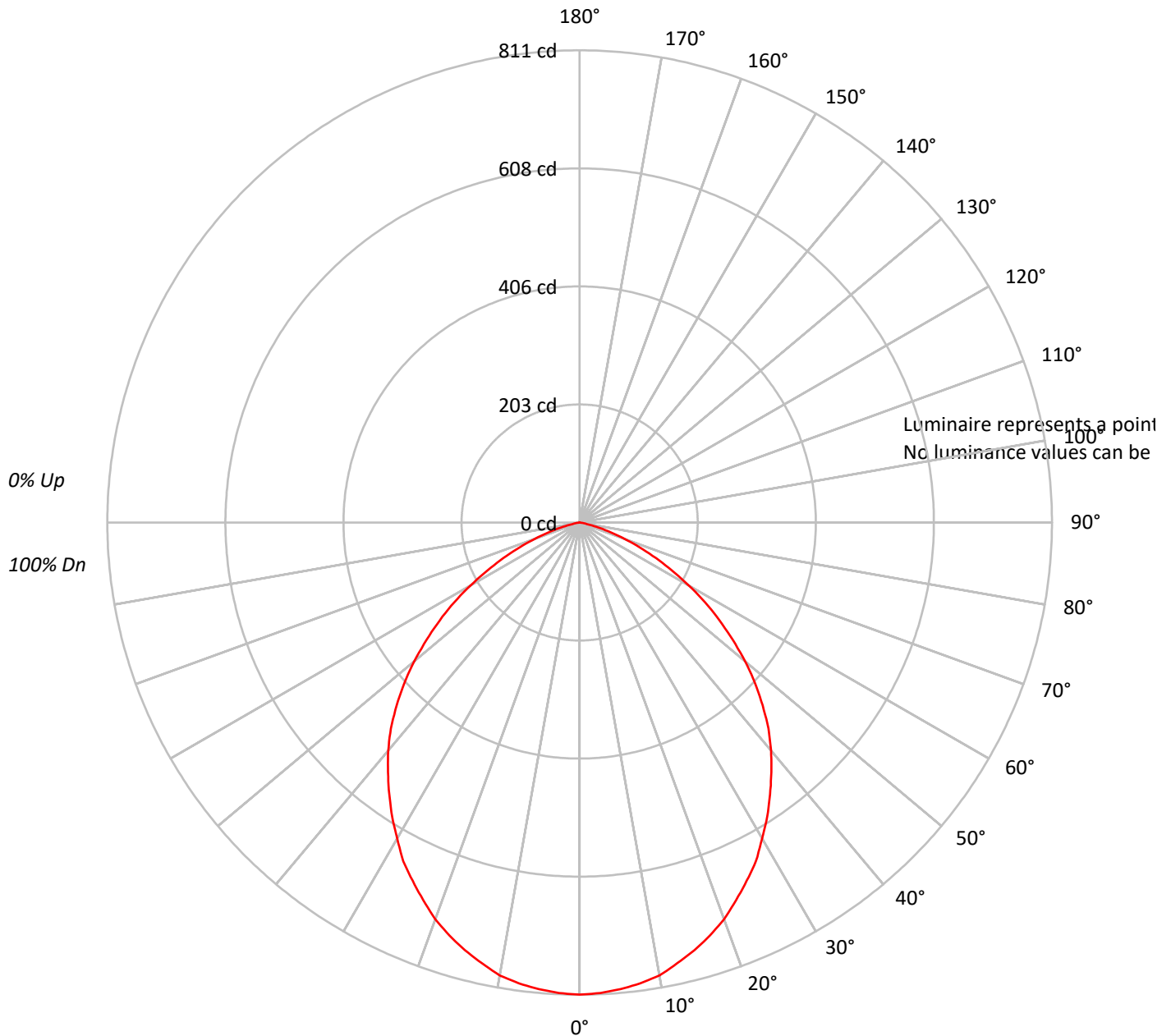
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P205911

CATALOG NUMBER: LD4B20D010 EU4B10208027 4LBSGPH1

Luminous Intensity Polar Plot





TEST NUMBER: P205911

CATALOG NUMBER: LD4B20D010 EU4B10208027 4LBSGPH1

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	103	100		108	105	102	99		101	98	96		97	95	93		93	91	90
2	102	95	89	84		100	93	88	83		90	85	82		87	83	80		84	81	78
3	94	85	78	72		92	83	77	71		80	75	70		78	73	69		75	71	68
4	87	76	68	62		85	75	67	62		72	66	61		70	65	60		68	63	59
5	80	68	60	54		78	67	60	54		65	59	53		63	58	53		62	56	52
6	74	62	54	48		73	61	53	48		59	52	47		58	52	47		56	51	47
7	69	57	48	43		68	56	48	43		54	47	42		53	47	42		52	46	42
8	65	52	44	38		63	51	44	38		50	43	38		49	42	38		48	42	38
9	60	48	40	35		59	47	40	35		46	39	35		45	39	34		44	38	34
10	57	44	37	32		56	44	36	32		43	36	31		42	36	31		41	35	31

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P205911

CATALOG NUMBER: LD4B20D010 EU4B10208027 4LBSGPH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	4.4
10°-20°	214.3	12.3
20°-30°	312.6	17.9
30°-40°	356.4	20.4
40°-50°	341.9	19.6
50°-60°	261.9	15.0
60°-70°	143.7	8.2
70°-80°	38.2	2.2
80°-90°	0.6	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°	603.2	34.5
0°-40°	959.7	55.0
0°-60°	1563.4	89.5
0°-90°	1745.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1745.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	811	
5°	805	76
15°	761	214
25°	679	313
35°	570	356
45°	444	342
55°	293	262
65°	145	144
75°	34	38
85°	0	1
90°	0	



TEST NUMBER: P205911

CATALOG NUMBER: LD4B20D010 EU4B10208027 4LBSGPH1

CANDELA DISTRIBUTION (FULL):

	0°
0°	810.9
2.5°	808.8
5°	804.6
7.5°	798.3
10°	789.9
12.5°	775.3
15°	760.6
17.5°	743.8
20°	725.0
22.5°	701.9
25°	678.9
27.5°	655.8
30°	626.5
32.5°	599.3
35°	569.9
37.5°	540.6
40°	511.3
42.5°	479.8
45°	444.2
47.5°	408.6
50°	370.9
52.5°	331.1
55°	293.3
57.5°	255.6
60°	215.8
62.5°	178.1
65°	144.6
67.5°	111.1
70°	81.7
72.5°	54.5
75°	33.5
77.5°	14.7
80°	4.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)