

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: P207672

Luminaire Tested: **LD4B20D010 EU4B10209027 4LBNH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207672
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 EU4B10209027 4LBNH1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW DISTRIBUTION WITH SEMI-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: 1039.3 lumens
Efficiency: N/A
Efficacy: 50.0 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

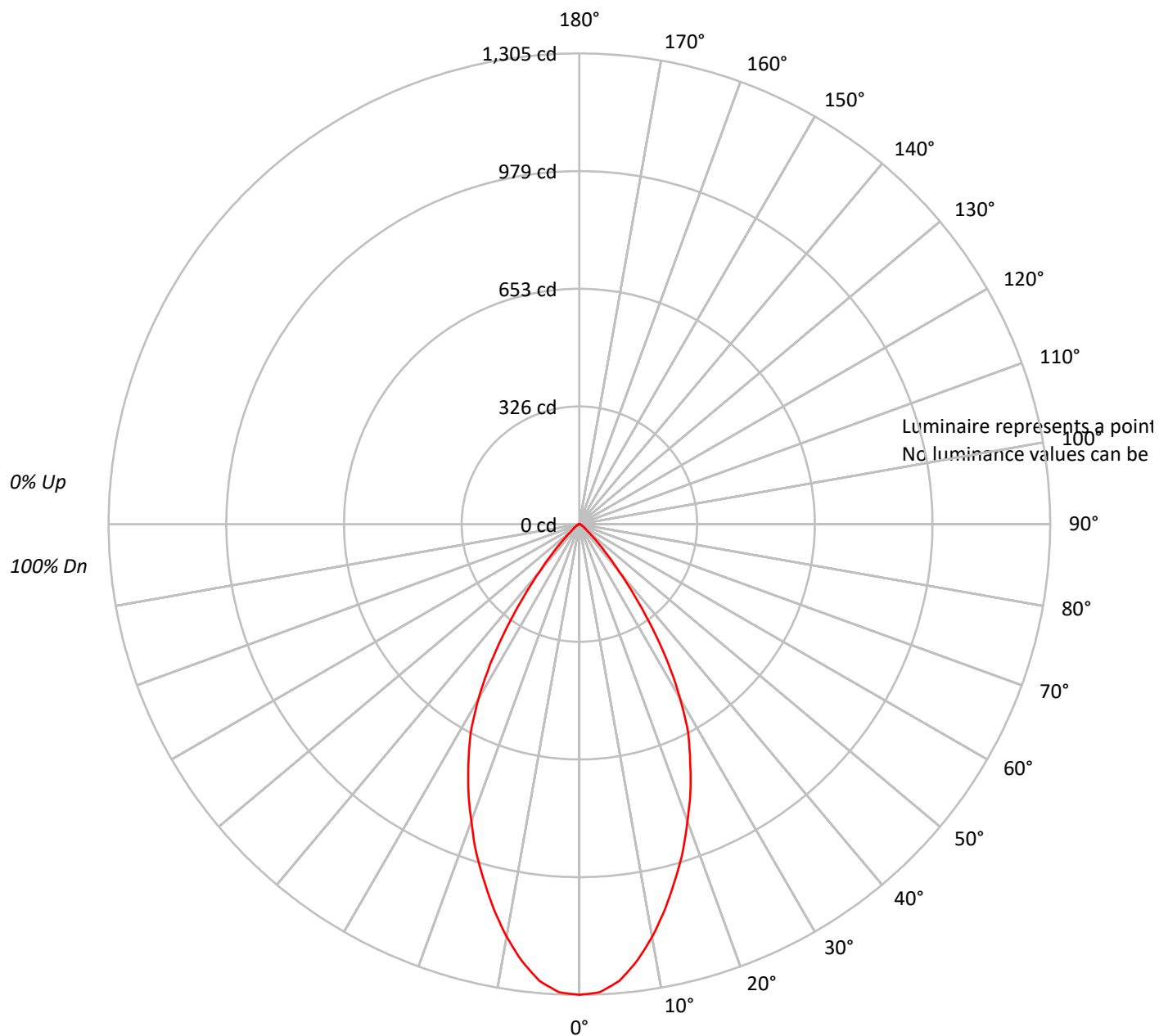
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P207672

CATALOG NUMBER: LD4B20D010 EU4B10209027 4LBNH1

Luminous Intensity Polar Plot





TEST NUMBER: P207672

CATALOG NUMBER: LD4B20D010 EU4B10209027 4LBNH1

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	113	111	108	106	111	109	106	104		105	103	101		101	99	98		97	96	95
2	108	103	99	96	106	101	98	94		98	95	92		95	93	90		92	90	89
3	102	96	91	87	100	95	90	86		92	88	85		90	86	84		87	85	82
4	97	90	84	80	95	89	83	79		86	82	78		84	81	78		83	79	77
5	92	84	78	74	91	83	78	73		81	76	73		80	75	72		78	74	72
6	88	79	73	69	86	78	72	68		77	72	68		75	71	67		74	70	67
7	83	74	68	64	82	73	68	64		72	67	63		71	66	63		70	66	63
8	79	70	64	60	78	69	64	60		68	63	59		67	63	59		66	62	59
9	76	66	60	56	74	65	60	56		65	59	56		64	59	56		63	59	55
10	72	62	57	53	71	62	56	53		61	56	53		60	56	52		60	55	52

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P207672

CATALOG NUMBER: LD4B20D010 EU4B10209027 4LBNH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	11.3
10°-20°	285.6	27.5
20°-30°	331.6	31.9
30°-40°	219.6	21.1
40°-50°	61.6	5.9
50°-60°	15.5	1.5
60°-70°	5.8	0.6
70°-80°	2.0	0.2
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°	734.9	70.7
0°-40°	954.4	91.8
0°-60°	1031.5	99.3
0°-90°	1039.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1039.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1305	
5°	1271	118
15°	1022	286
25°	727	332
35°	352	220
45°	72	62
55°	17	15
65°	6	6
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P207672

CATALOG NUMBER: LD4B20D010 EU4B10209027 4LBNH1

CANDELA DISTRIBUTION (FULL):

0°	
0°	1304.9
2.5°	1299.2
5°	1271.0
7.5°	1222.0
10°	1161.8
12.5°	1094.0
15°	1022.4
17.5°	952.8
20°	875.6
22.5°	804.0
25°	726.8
27.5°	653.4
30°	559.2
32.5°	459.4
35°	352.1
37.5°	252.3
40°	171.3
42.5°	111.1
45°	71.6
47.5°	43.3
50°	28.2
52.5°	20.7
55°	16.9
57.5°	13.2
60°	9.4
62.5°	7.5
65°	5.6
67.5°	3.8
70°	3.8
72.5°	1.9
75°	1.9
77.5°	1.9
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)