

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: P205923

Luminaire Tested: **LD4B20D010 EU4B10209730 4LBSGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P205923
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 EU4B10209730 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: 1362.2 lumens
Efficiency: N/A
Efficacy: 65.5 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

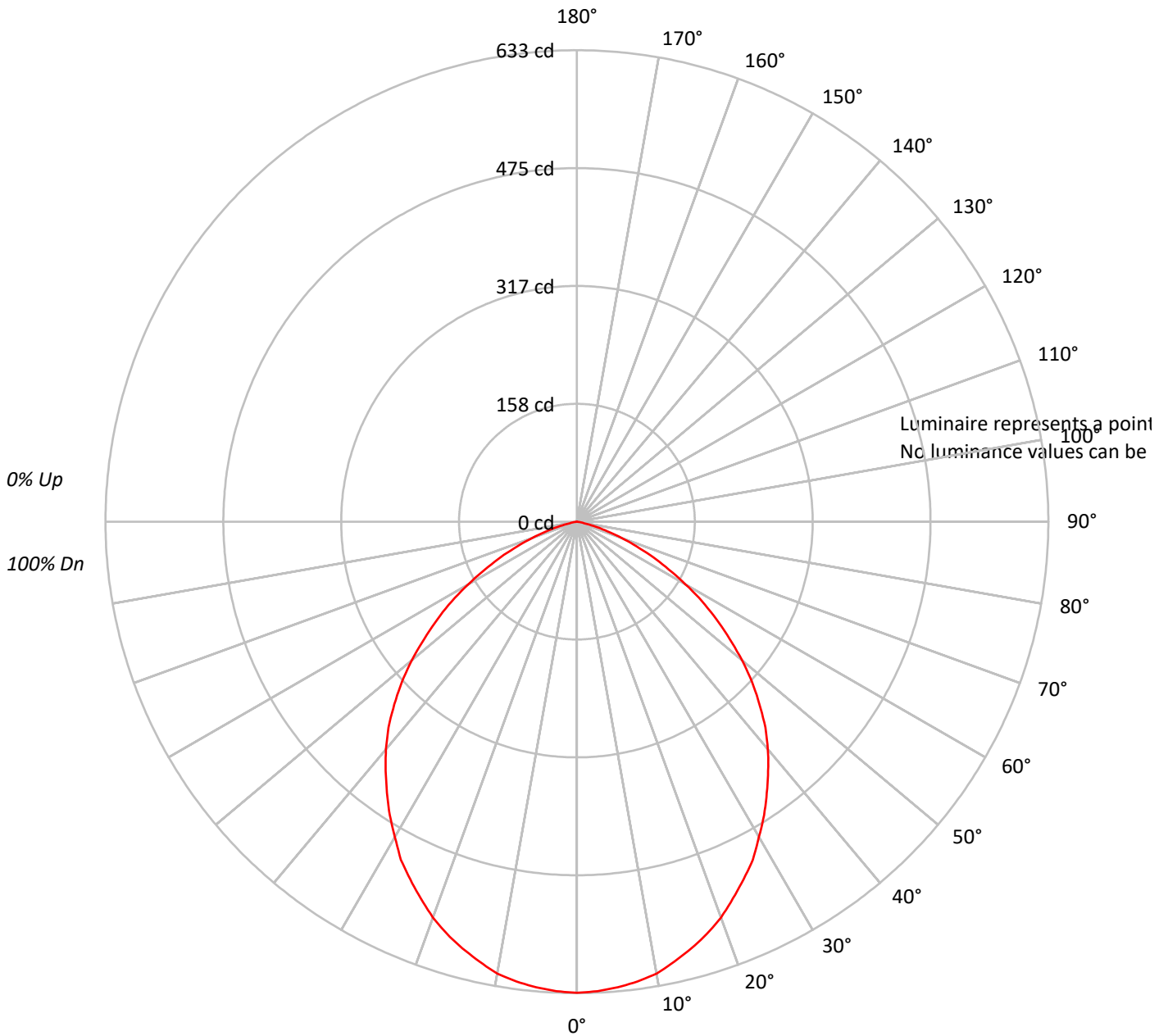
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P205923

CATALOG NUMBER: LD4B20D010 EU4B10209730 4LBSGPH1

Luminous Intensity Polar Plot





TEST NUMBER: P205923

CATALOG NUMBER: LD4B20D010 EU4B10209730 4LBSGPH1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	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	102	102	102	100			100																
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88			88																
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76			76																
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66			66																
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57			57																
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50			50																
6	74	62	54	48	73	61	53	48	59	52	47	58	52	47	56	51	47	45			45																
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40			40																
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36			36																
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	32			32																
10	57	44	37	32	56	44	36	32	43	36	31	42	36	31	41	35	31	30			30																

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P205923

CATALOG NUMBER: LD4B20D010 EU4B10209730 4LBSGPH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	4.4
10°-20°	167.2	12.3
20°-30°	243.9	17.9
30°-40°	278.1	20.4
40°-50°	266.8	19.6
50°-60°	204.3	15.0
60°-70°	112.1	8.2
70°-80°	29.8	2.2
80°-90°	0.4	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°	470.6	34.5
0°-40°	748.7	55.0
0°-60°	1219.8	89.5
0°-90°	1362.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1362.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	633	
5°	628	60
15°	593	167
25°	530	244
35°	445	278
45°	347	267
55°	229	204
65°	113	112
75°	26	30
85°	0	0
90°	0	



TEST NUMBER: P205923

CATALOG NUMBER: LD4B20D010 EU4B10209730 4LBSGPH1

CANDELA DISTRIBUTION (FULL):

	0°
0°	632.6
2.5°	631.0
5°	627.7
7.5°	622.8
10°	616.3
12.5°	604.9
15°	593.4
17.5°	580.3
20°	565.6
22.5°	547.6
25°	529.7
27.5°	511.7
30°	488.8
32.5°	467.5
35°	444.6
37.5°	421.8
40°	398.9
42.5°	374.4
45°	346.6
47.5°	318.8
50°	289.3
52.5°	258.3
55°	228.9
57.5°	199.4
60°	168.4
62.5°	139.0
65°	112.8
67.5°	86.6
70°	63.8
72.5°	42.5
75°	26.2
77.5°	11.4
80°	3.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)