

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: P206332

Luminaire Tested: **LD4B20D010 EU4B10209024 4LBCSMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206332
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 EU4B10209024 4LBSCMW1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH CAST 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: 1526.7 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

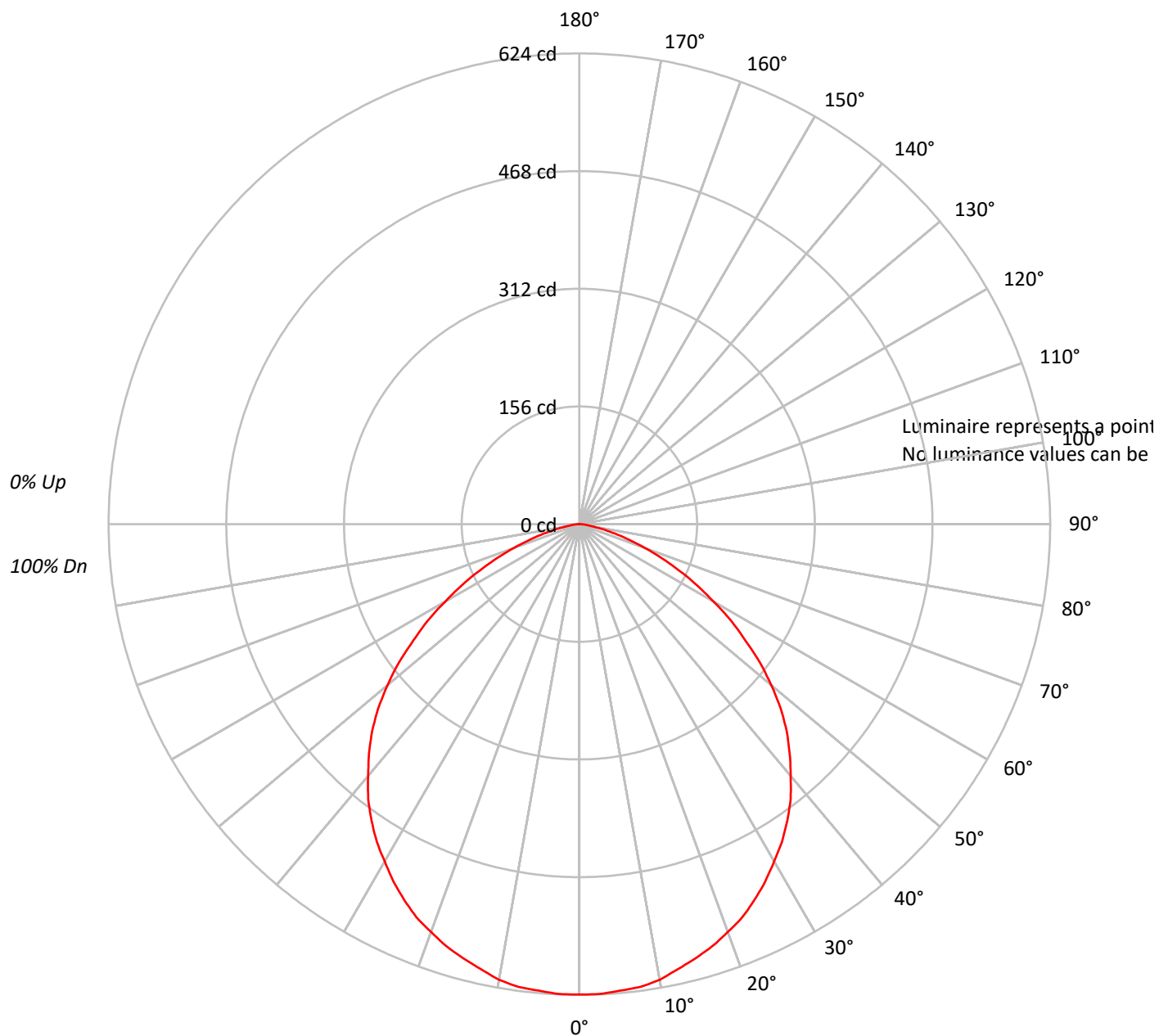
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P206332

CATALOG NUMBER: LD4B20D010 EU4B10209024 4LBCSMW1

Luminous Intensity Polar Plot





TEST NUMBER: P206332

CATALOG NUMBER: LD4B20D010 EU4B10209024 4LBCSMW1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				20
RC	80				70					50					30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	0
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74	
3	93	83	75	70	90	81	74	69	79	73	68	76	71	67	73	69	65	63	
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55	
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48	
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42	
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37	
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33	
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30	
10	55	42	35	30	54	42	34	30	41	34	29	40	34	29	39	33	29	27	

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P206332

CATALOG NUMBER: LD4B20D010 EU4B10209024 4LBCSMW1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.1	3.9
10°-20°	168.2	11.0
20°-30°	253.0	16.6
30°-40°	299.9	19.6
40°-50°	298.4	19.5
50°-60°	240.6	15.8
60°-70°	145.5	9.5
70°-80°	54.0	3.5
80°-90°	8.1	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°	480.3	31.5
0°-40°	780.1	51.1
0°-60°	1319.1	86.4
0°-90°	1526.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1526.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	624	
5°	621	59
15°	596	168
25°	550	253
35°	480	300
45°	389	298
55°	268	241
65°	146	146
75°	49	54
85°	6	8
90°	0	



TEST NUMBER: P206332

CATALOG NUMBER: LD4B20D010 EU4B10209024 4LBCSMW1

CANDELA DISTRIBUTION (FULL):

	0°
0°	623.6
2.5°	623.6
5°	620.8
7.5°	618.9
10°	613.4
12.5°	604.1
15°	595.8
17.5°	586.6
20°	575.4
22.5°	564.3
25°	549.5
27.5°	533.8
30°	516.2
32.5°	499.6
35°	480.2
37.5°	459.8
40°	435.7
42.5°	412.6
45°	388.6
47.5°	361.7
50°	332.1
52.5°	301.6
55°	268.3
57.5°	238.7
60°	205.4
62.5°	175.8
65°	146.2
67.5°	118.4
70°	92.5
72.5°	69.4
75°	49.0
77.5°	31.5
80°	18.5
82.5°	11.1
85°	6.5
87.5°	2.8
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)