

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: P206368

Luminaire Tested: **LD4B50D010TE EU4B30508035 4LBCSMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206368
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: LD4B50D010TE EU4B30508035 4LBCSMW1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH CAST MATTE WHITE TRIM
SINGLE DRIVER D010TE
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5564.2 lumens
Efficiency: N/A
Efficacy: 94.7 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

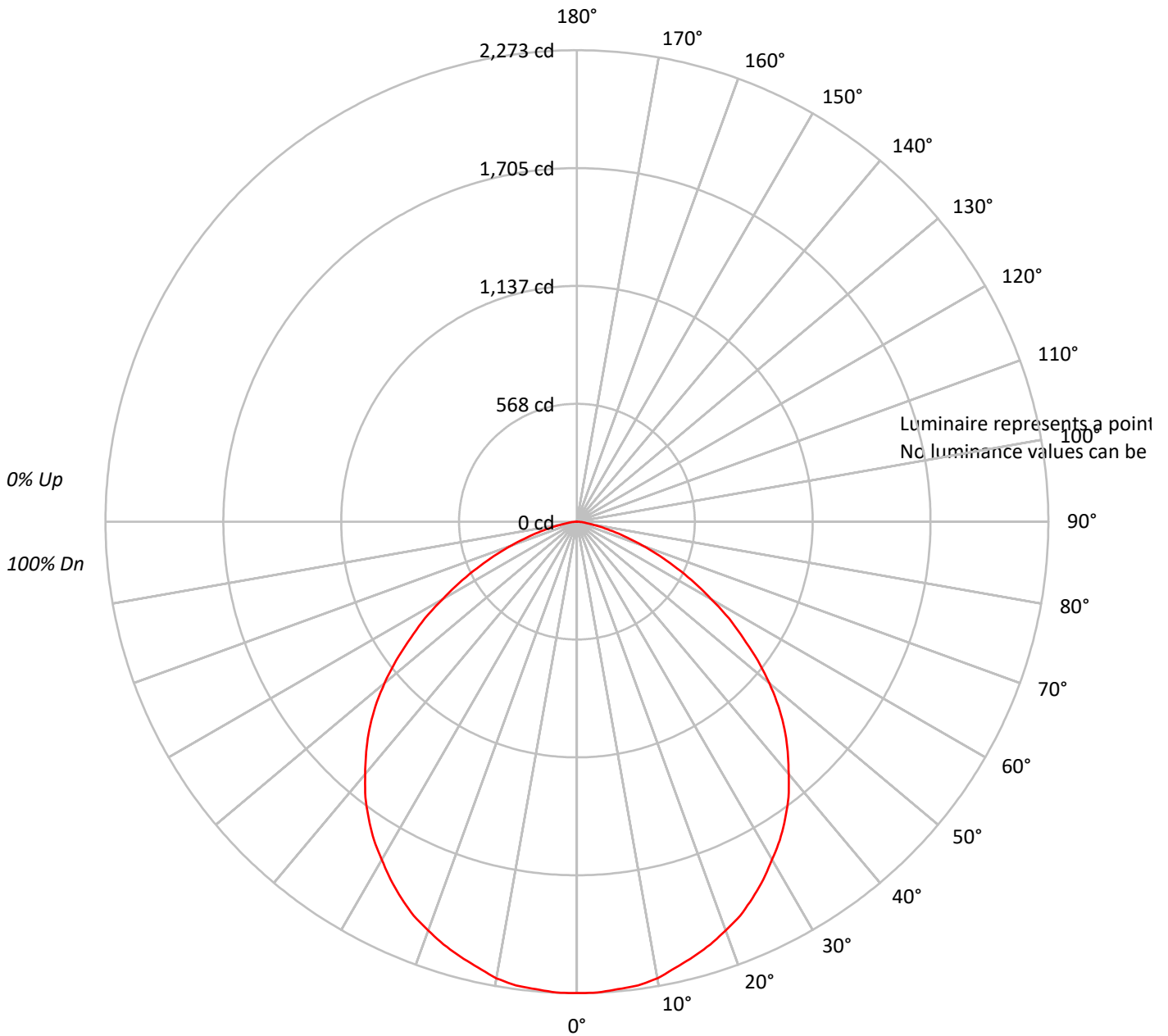
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P206368

CATALOG NUMBER: LD4B50D010TE EU4B30508035 4LBCSMW1

Luminous Intensity Polar Plot





TEST NUMBER: P206368

CATALOG NUMBER: LD4B50D010TE EU4B30508035 4LBCSMW1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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			
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: P206368

CATALOG NUMBER: LD4B50D010TE EU4B30508035 4LBCSMW1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.3	3.9
10°-20°	613.0	11.0
20°-30°	922.1	16.6
30°-40°	1092.9	19.6
40°-50°	1087.6	19.5
50°-60°	876.7	15.8
60°-70°	530.4	9.5
70°-80°	196.9	3.5
80°-90°	29.3	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°	1750.4	31.5
0°-40°	2843.3	51.1
0°-60°	4807.6	86.4
0°-90°	5564.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5564.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2273	
5°	2262	215
15°	2171	613
25°	2003	922
35°	1750	1093
45°	1416	1088
55°	978	877
65°	533	530
75°	179	197
85°	24	29
90°	0	



TEST NUMBER: P206368

CATALOG NUMBER: LD4B50D010TE EU4B30508035 4LBCSMW1

CANDELA DISTRIBUTION (FULL):

	0°
0°	2272.6
2.5°	2272.6
5°	2262.5
7.5°	2255.7
10°	2235.5
12.5°	2201.8
15°	2171.4
17.5°	2137.7
20°	2097.3
22.5°	2056.8
25°	2002.8
27.5°	1945.5
30°	1881.5
32.5°	1820.8
35°	1750.0
37.5°	1675.8
40°	1588.1
42.5°	1503.8
45°	1416.2
47.5°	1318.4
50°	1210.5
52.5°	1099.2
55°	977.8
57.5°	869.9
60°	748.5
62.5°	640.6
65°	532.7
67.5°	431.6
70°	337.2
72.5°	252.9
75°	178.7
77.5°	114.6
80°	67.4
82.5°	40.5
85°	23.6
87.5°	10.1
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)