

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: P206582

Luminaire Tested: **LD4B50D010TE EU4B30509050 4LBCSMMS1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206582
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 EU4B30509050 4LBCSMMS1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH CAST MATTE BLACK TRIM
SINGLE DRIVER D010TE
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3994.9 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

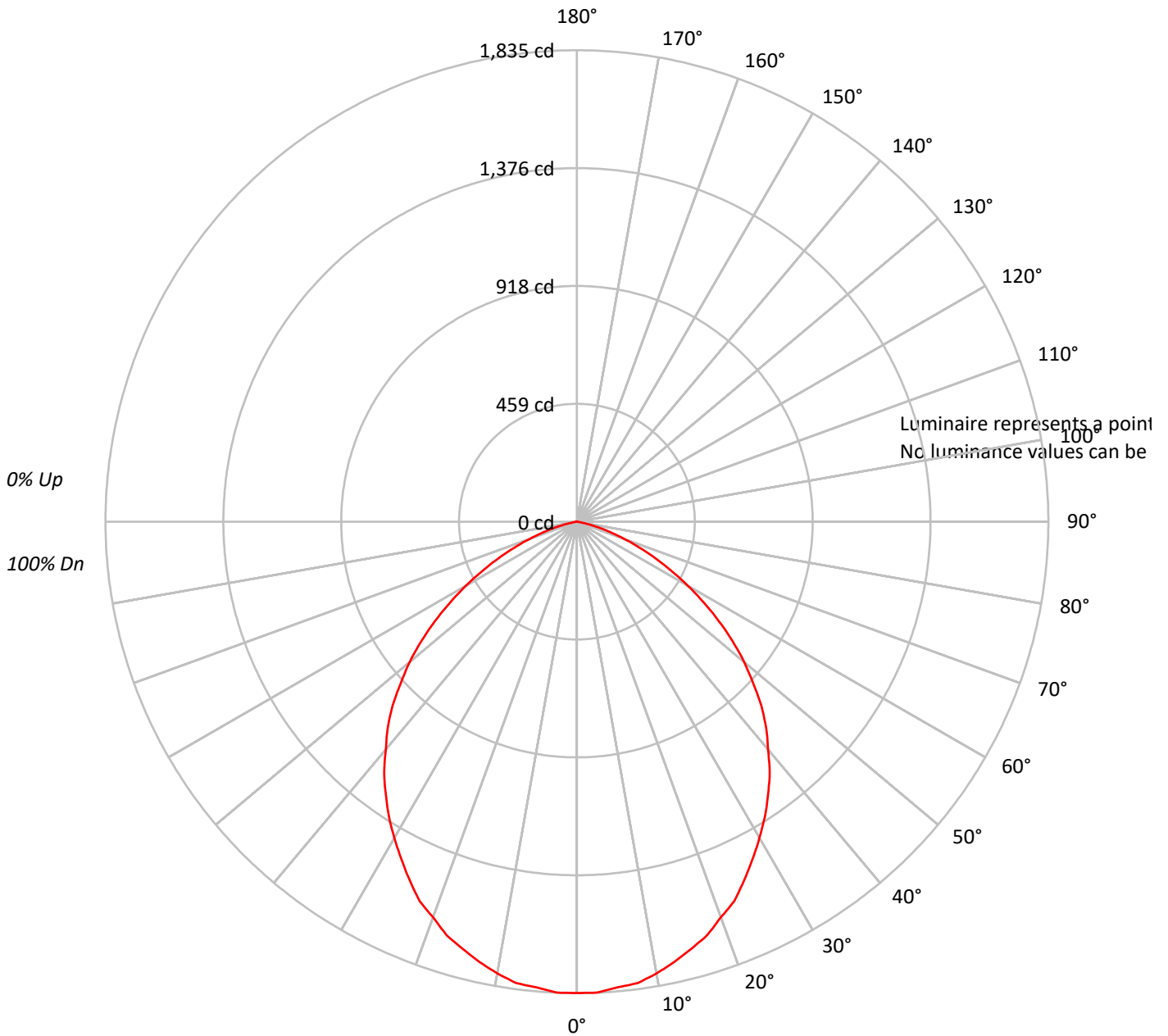
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P206582

CATALOG NUMBER: LD4B50D010TE EU4B30509050 4LBCSMMS1

Luminous Intensity Polar Plot





TEST NUMBER: P206582

CATALOG NUMBER: LD4B50D010TE EU4B30509050 4LBCSMMS1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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				100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88				88
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76				76
3	94	85	77	72	92	83	76	71	80	74	70	77	73	69	75	71	67	65				65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57				57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50				50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44				44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40				40
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36				36
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32				32
10	57	44	36	31	55	43	36	31	43	36	31	42	35	31	41	35	31	29				29

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P206582

CATALOG NUMBER: LD4B50D010TE EU4B30509050 4LBCSMMS1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.9	4.3
10°-20°	485.1	12.1
20°-30°	708.6	17.7
30°-40°	810.4	20.3
40°-50°	778.9	19.5
50°-60°	601.5	15.1
60°-70°	335.7	8.4
70°-80°	97.7	2.4
80°-90°	4.2	0.1
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°	1366.6	34.2
0°-40°	2177.0	54.5
0°-60°	3557.3	89.0
0°-90°	3994.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3994.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1835	
5°	1819	173
15°	1721	485
25°	1540	709
35°	1297	810
45°	1016	779
55°	674	601
65°	336	336
75°	85	98
85°	3	4
90°	0	



TEST NUMBER: P206582

CATALOG NUMBER: LD4B50D010TE EU4B30509050 4LBCSMMS1

CANDELA DISTRIBUTION (FULL):

	0°
0°	1834.6
2.5°	1834.6
5°	1819.1
7.5°	1811.3
10°	1785.5
12.5°	1754.5
15°	1720.9
17.5°	1687.3
20°	1638.2
22.5°	1599.4
25°	1540.0
27.5°	1480.6
30°	1421.1
32.5°	1361.7
35°	1297.1
37.5°	1232.5
40°	1157.6
42.5°	1090.4
45°	1015.5
47.5°	930.2
50°	850.1
52.5°	762.3
55°	674.4
57.5°	584.0
60°	498.7
62.5°	413.4
65°	335.9
67.5°	263.6
70°	196.4
72.5°	136.9
75°	85.3
77.5°	43.9
80°	15.5
82.5°	5.2
85°	2.6
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)