

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: P206888

Luminaire Tested: **LD4B50D010TE EU4B30509030 4LBWGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206888
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 EU4B30509030 4LBWGPH1
Description: PORTFOLIO 4 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT
WIDE DISTRIBUTIONWITH GRAPHITE HAZE TRIM
SINGLE DRIVER D010TE
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2905.9 lumens
Efficiency: N/A
Efficacy: 49.4 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.08
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

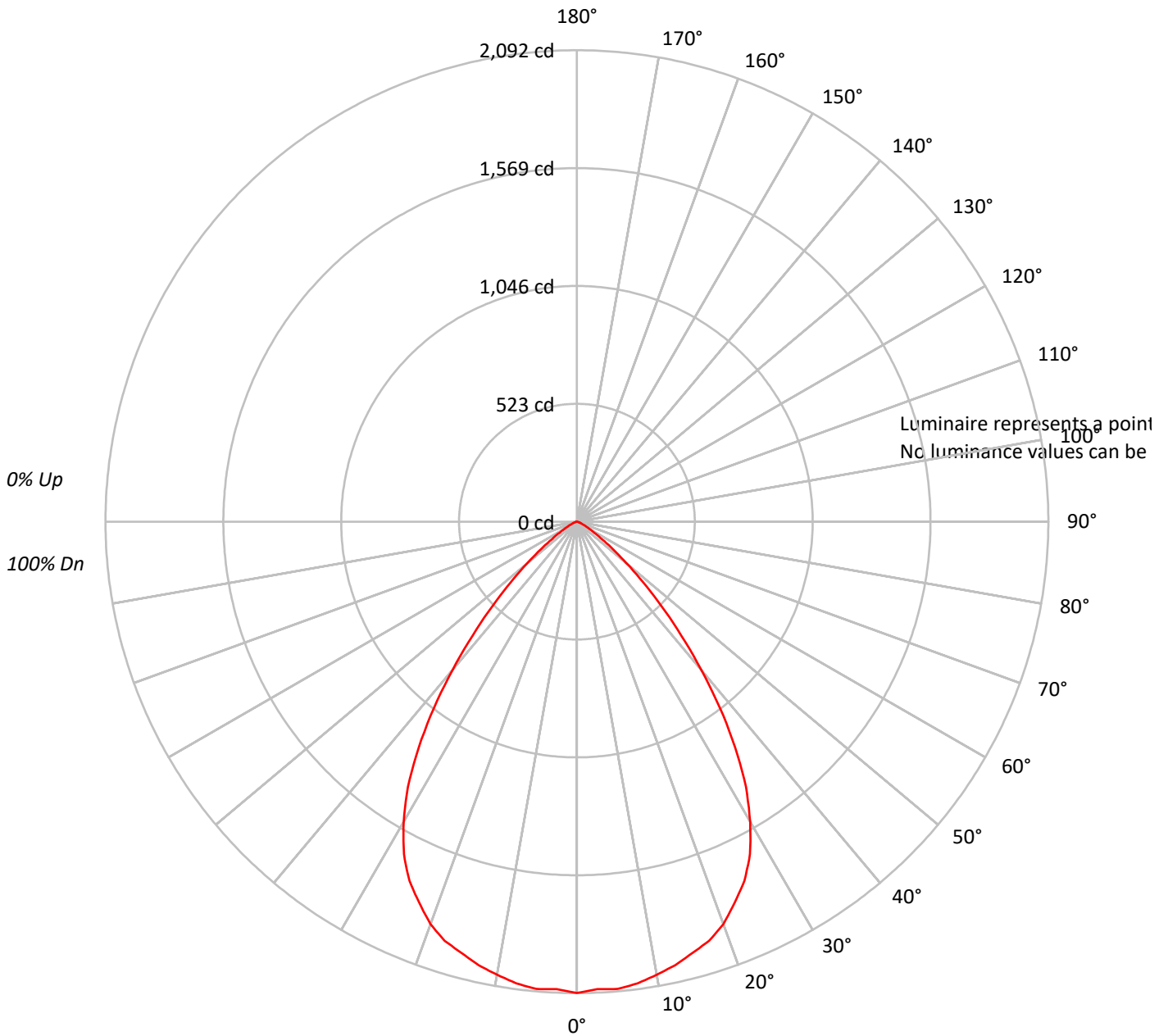
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P206888

CATALOG NUMBER: LD4B50D010TE EU4B30509030 4LBWGP1

Luminous Intensity Polar Plot





TEST NUMBER: P206888

CATALOG NUMBER: LD4B50D010TE EU4B30509030 4LBWGP1

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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92			
2	106	100	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	77	76			
4	94	85	78	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	64	63			
6	83	72	65	61	81	71	65	60	70	64	60	68	63	59	67	63	59	57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	55	63	58	54	53			
8	73	62	56	51	72	62	55	51	61	55	51	59	54	50	58	54	50	48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41			

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P206888

CATALOG NUMBER: LD4B50D010TE EU4B30509030 4LBWGPH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.3	6.8
10°-20°	559.1	19.2
20°-30°	801.8	27.6
30°-40°	755.0	26.0
40°-50°	416.9	14.3
50°-60°	133.7	4.6
60°-70°	33.5	1.2
70°-80°	7.9	0.3
80°-90°	0.7	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°	1558.2	53.6
0°-40°	2313.2	79.6
0°-60°	2863.8	98.6
0°-90°	2905.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2905.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2092	
5°	2082	197
15°	1981	559
25°	1759	802
35°	1225	755
45°	529	417
55°	136	134
65°	30	33
75°	5	8
85°	0	1
90°	0	



TEST NUMBER: P206888

CATALOG NUMBER: LD4B50D010TE EU4B30509030 4LBWGPH1

CANDELA DISTRIBUTION (FULL):

	0°
0°	2091.5
2.5°	2076.4
5°	2081.5
7.5°	2066.3
10°	2041.1
12.5°	2015.9
15°	1980.7
17.5°	1950.4
20°	1900.0
22.5°	1829.5
25°	1758.9
27.5°	1663.1
30°	1537.2
32.5°	1396.0
35°	1224.7
37.5°	1043.2
40°	856.8
42.5°	685.4
45°	529.2
47.5°	398.1
50°	287.3
52.5°	201.6
55°	136.1
57.5°	90.7
60°	65.5
62.5°	45.4
65°	30.2
67.5°	20.2
70°	15.1
72.5°	10.1
75°	5.0
77.5°	5.0
80°	5.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)