

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: P207090

Luminaire Tested: **LD4B50D010TE EU4B30508040 4LBWMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207090
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 EU4B30508040 4LBWMW1
Description: PORTFOLIO 4 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT
WIDE DISTRIBUTION WITH MATTE WHITE TRIM
SINGLE DRIVER D010TE
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4703.6 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

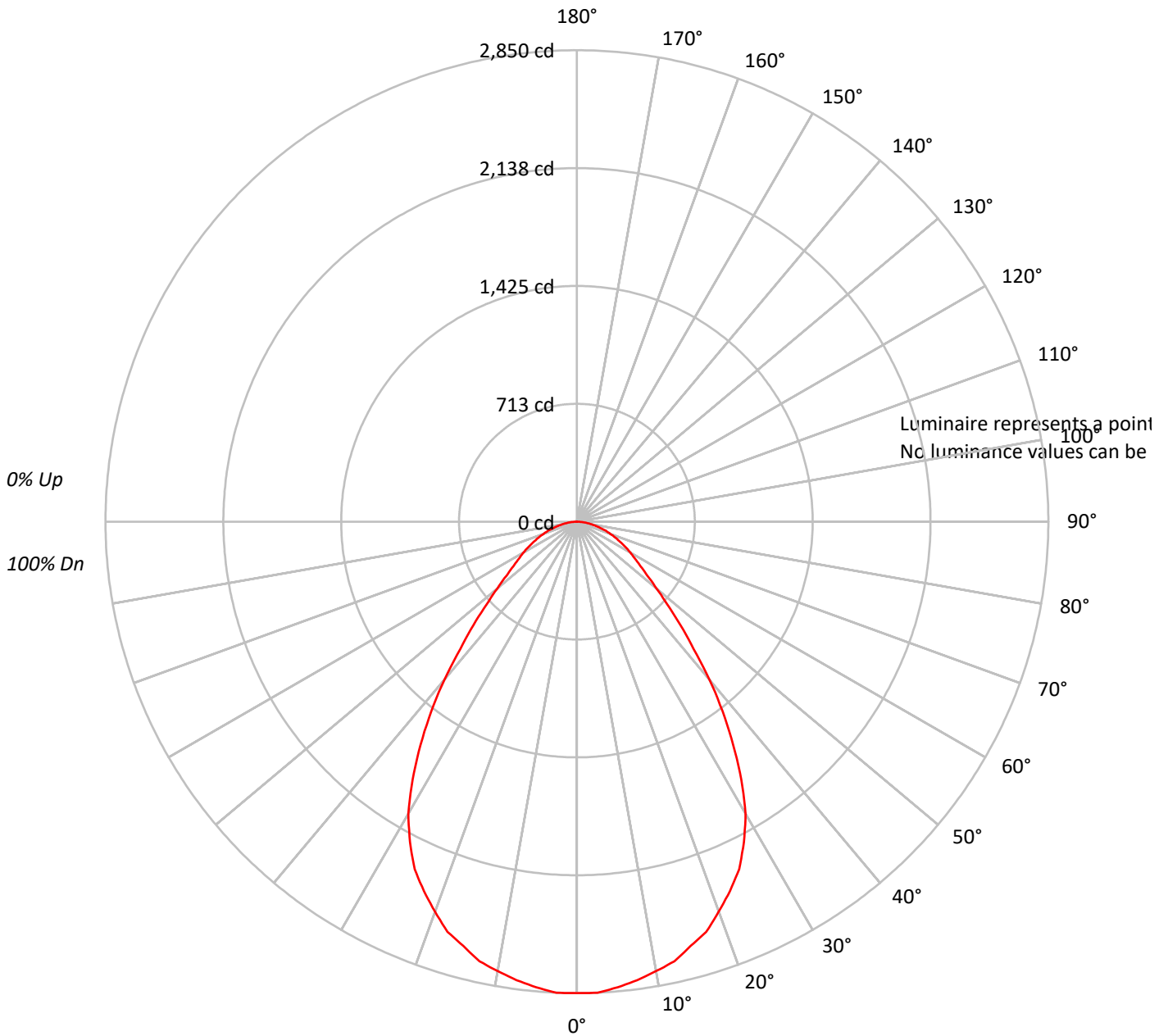
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P207090

CATALOG NUMBER: LD4B50D010TE EU4B30508040 4LBWMW1

Luminous Intensity Polar Plot





TEST NUMBER: P207090

CATALOG NUMBER: LD4B50D010TE EU4B30508040 4LBWMW1

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78			
3	96	87	80	75	93	85	79	74	83	77	73	80	76	72	78	74	71	69			
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61			
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	60	55	51	50			
7	73	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45			
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	39	38			
10	61	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35			

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P207090

CATALOG NUMBER: LD4B50D010TE EU4B30508040 4LBWMW1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.6	5.7
10°-20°	748.4	15.9
20°-30°	1057.6	22.5
30°-40°	1024.5	21.8
40°-50°	691.3	14.7
50°-60°	429.0	9.1
60°-70°	286.8	6.1
70°-80°	156.9	3.3
80°-90°	41.5	0.9
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°	2073.6	44.1
0°-40°	3098.1	65.9
0°-60°	4218.4	89.7
0°-90°	4703.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4703.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2850	
5°	2826	268
15°	2655	748
25°	2319	1058
35°	1648	1024
45°	885	691
55°	470	429
65°	287	287
75°	146	157
85°	37	41
90°	0	



TEST NUMBER: P207090

CATALOG NUMBER: LD4B50D010TE EU4B30508040 4LBWMW1

CANDELA DISTRIBUTION (FULL):

	0°
0°	2850.2
2.5°	2850.2
5°	2825.8
7.5°	2795.3
10°	2758.7
12.5°	2722.1
15°	2654.9
17.5°	2600.0
20°	2508.4
22.5°	2416.9
25°	2319.2
27.5°	2185.0
30°	2038.5
32.5°	1849.3
35°	1647.9
37.5°	1446.5
40°	1245.1
42.5°	1043.7
45°	885.0
47.5°	738.5
50°	628.6
52.5°	537.1
55°	470.0
57.5°	415.0
60°	372.3
62.5°	329.6
65°	286.9
67.5°	250.2
70°	213.6
72.5°	183.1
75°	146.5
77.5°	116.0
80°	85.4
82.5°	61.0
85°	36.6
87.5°	12.2
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)