

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: P206886

Luminaire Tested: **LD4B50D010TE EU4B30509024 4LBWGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206886
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 EU4B30509024 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: 2458.8 lumens
Efficiency: N/A
Efficacy: 41.8 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

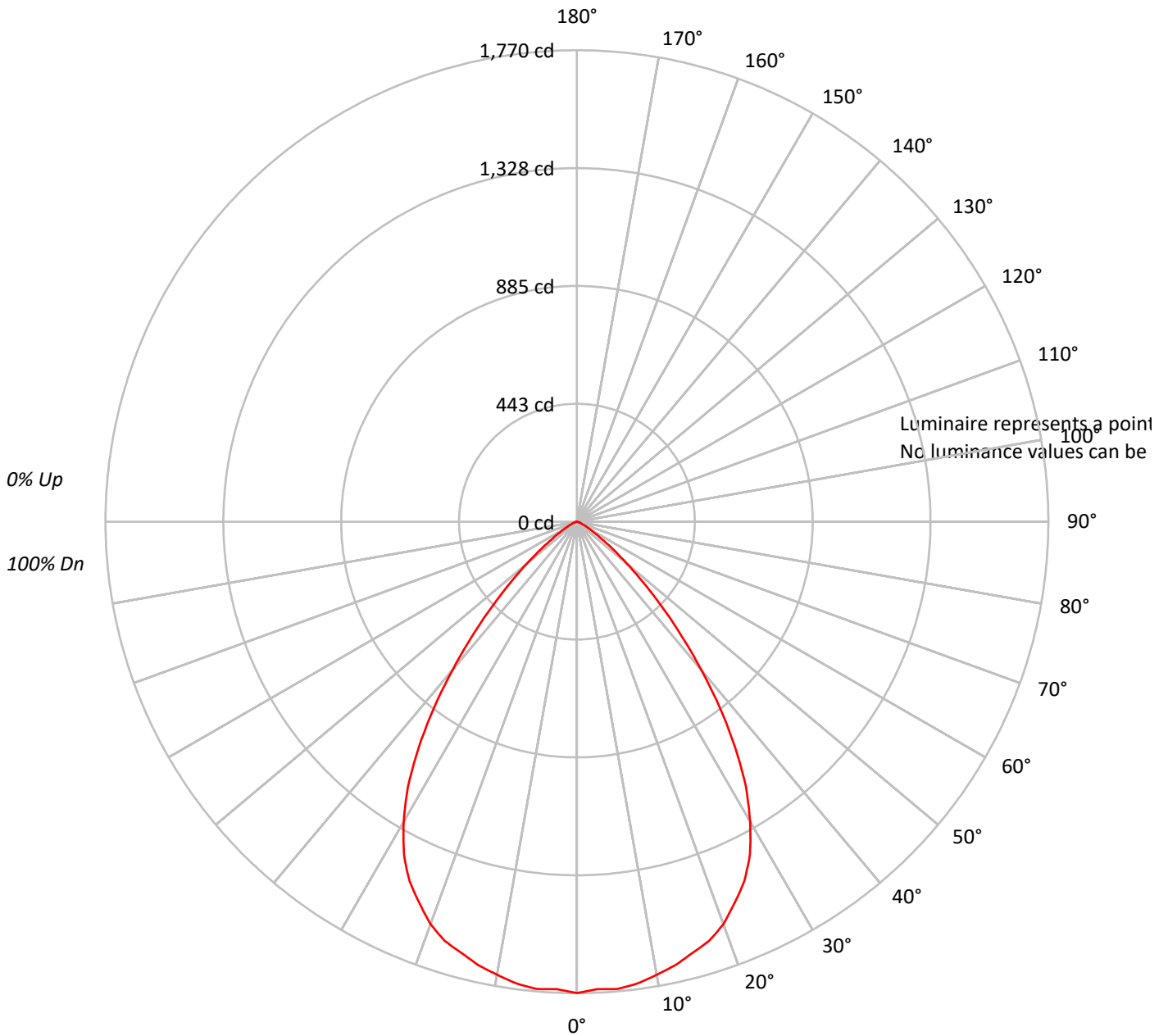
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P206886

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Luminous Intensity Polar Plot





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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	50	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):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.9	6.8
10°-20°	473.1	19.2
20°-30°	678.4	27.6
30°-40°	638.8	26.0
40°-50°	352.8	14.3
50°-60°	113.2	4.6
60°-70°	28.3	1.2
70°-80°	6.8	0.3
80°-90°	0.6	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°	1318.4	53.6
0°-40°	1957.2	79.6
0°-60°	2423.2	98.6
0°-90°	2458.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2458.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1770	
5°	1761	167
15°	1676	473
25°	1488	678
35°	1036	639
45°	448	353
55°	115	113
65°	26	28
75°	4	7
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1769.7
2.5°	1756.9
5°	1761.2
7.5°	1748.4
10°	1727.1
12.5°	1705.7
15°	1675.9
17.5°	1650.3
20°	1607.7
22.5°	1548.0
25°	1488.3
27.5°	1407.2
30°	1300.6
32.5°	1181.2
35°	1036.2
37.5°	882.7
40°	724.9
42.5°	580.0
45°	447.8
47.5°	336.9
50°	243.1
52.5°	170.6
55°	115.1
57.5°	76.8
60°	55.4
62.5°	38.4
65°	25.6
67.5°	17.1
70°	12.8
72.5°	8.5
75°	4.3
77.5°	4.3
80°	4.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)