

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: P206161

Luminaire Tested: **LD4B50D010TE EU4B30508040 4LBSMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206161
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 4LB5MW1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW 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: 5516.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

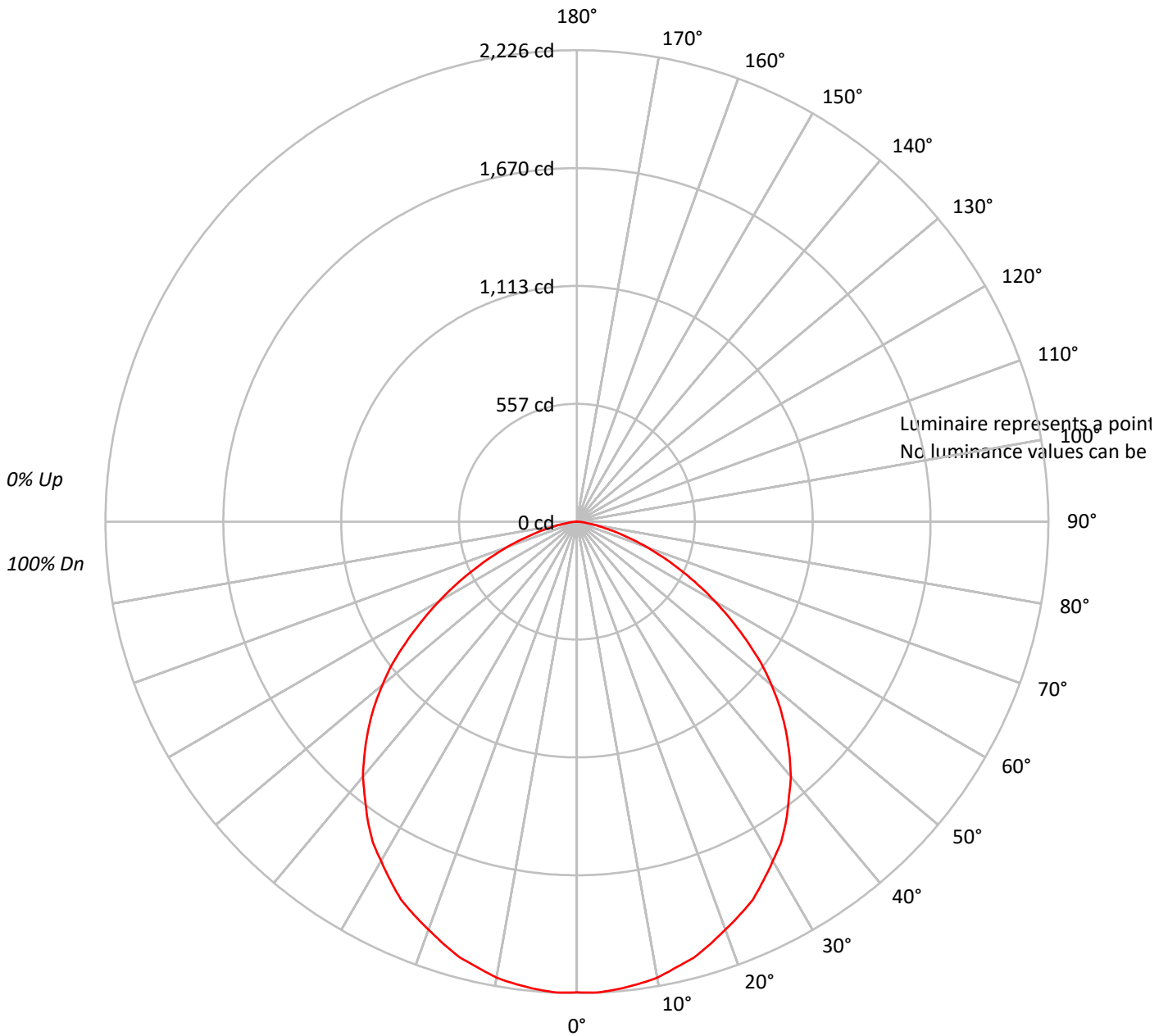
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86			
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74			
3	93	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63			
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	47			
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39	37			
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33			
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30			
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27			

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.6	3.8
10°-20°	600.2	10.9
20°-30°	904.0	16.4
30°-40°	1075.7	19.5
40°-50°	1073.7	19.5
50°-60°	873.2	15.8
60°-70°	537.2	9.7
70°-80°	208.1	3.8
80°-90°	33.3	0.6
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°	1714.8	31.1
0°-40°	2790.5	50.6
0°-60°	4737.4	85.9
0°-90°	5516.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5516.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2222	
5°	2216	211
15°	2131	600
25°	1968	904
35°	1722	1076
45°	1396	1074
55°	977	873
65°	539	537
75°	190	208
85°	26	33
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2222.4
2.5°	2225.7
5°	2215.9
7.5°	2202.8
10°	2186.5
12.5°	2157.0
15°	2130.9
17.5°	2091.7
20°	2049.2
22.5°	2010.0
25°	1967.5
27.5°	1908.7
30°	1849.8
32.5°	1794.3
35°	1722.4
37.5°	1643.9
40°	1572.0
42.5°	1483.8
45°	1395.5
47.5°	1300.8
50°	1199.4
52.5°	1094.9
55°	977.2
57.5°	862.8
60°	751.7
62.5°	643.8
65°	539.3
67.5°	441.2
70°	349.7
72.5°	264.7
75°	189.6
77.5°	124.2
80°	75.2
82.5°	45.8
85°	26.1
87.5°	13.1
90°	0.0



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— 0°-180°







(END OF REPORT)