

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: P206135

Luminaire Tested: **LD4B30D010 EU4B30508040 4LBSMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206135
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: LD4B30D010 EU4B30508040 4LBSMW1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH MATTE WHITE TRIM
WATTAGE D010TR-27.4W DE010-27.95W D5LT-27.65W DMX-27.73W DL2-29.56W
DL3-29.67W DLE-29.73W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3096.0 lumens
Efficiency: N/A
Efficacy: 110.6 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

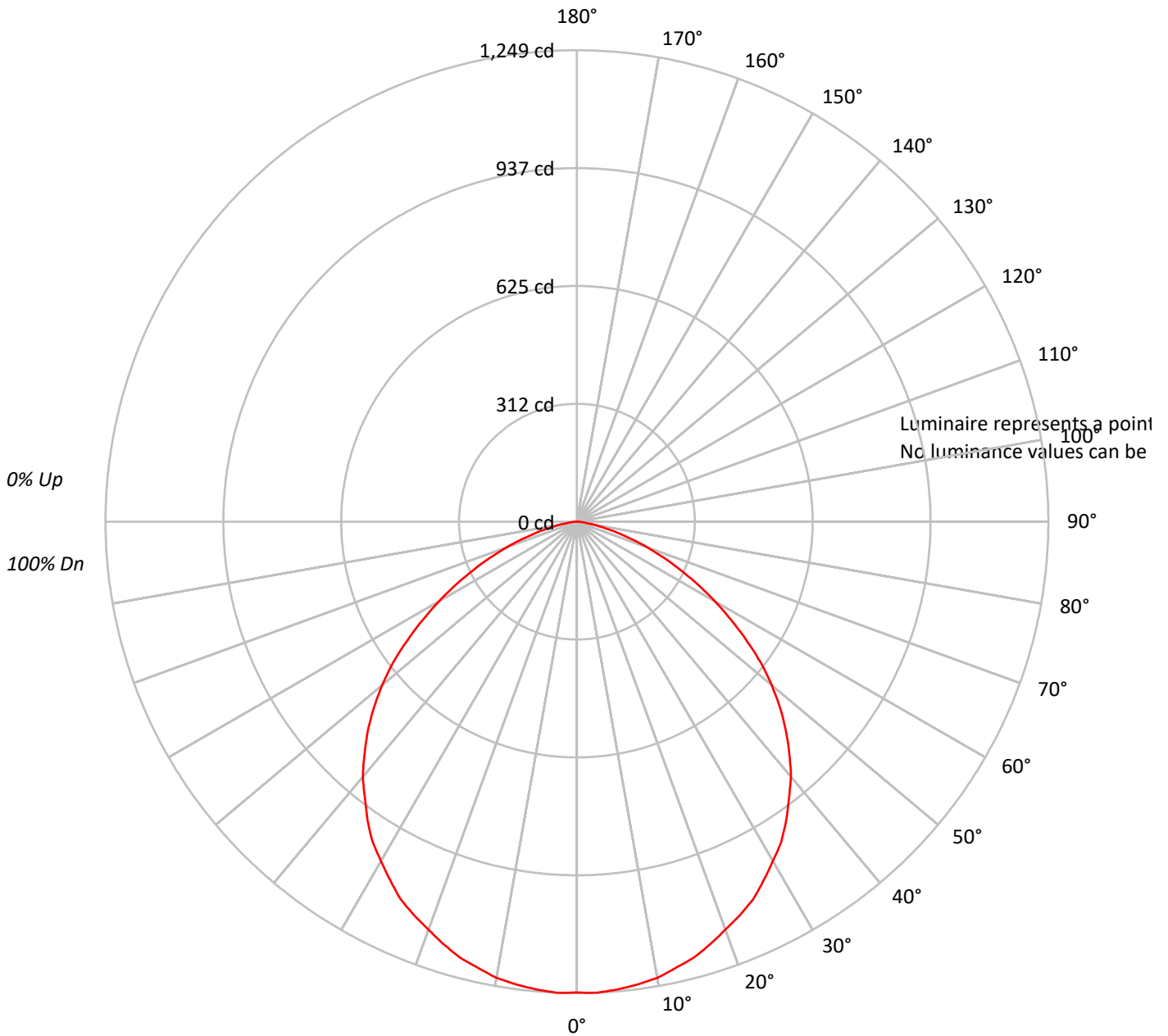
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	65	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°	118.2	3.8
10°-20°	336.9	10.9
20°-30°	507.4	16.4
30°-40°	603.7	19.5
40°-50°	602.6	19.5
50°-60°	490.1	15.8
60°-70°	301.5	9.7
70°-80°	116.8	3.8
80°-90°	18.7	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°	962.5	31.1
0°-40°	1566.2	50.6
0°-60°	2659.0	85.9
0°-90°	3096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3096.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1247	
5°	1244	118
15°	1196	337
25°	1104	507
35°	967	604
45°	783	603
55°	548	490
65°	303	302
75°	106	117
85°	15	19
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1247.4
2.5°	1249.2
5°	1243.7
7.5°	1236.4
10°	1227.2
12.5°	1210.7
15°	1196.0
17.5°	1174.0
20°	1150.2
22.5°	1128.1
25°	1104.3
27.5°	1071.3
30°	1038.3
32.5°	1007.1
35°	966.7
37.5°	922.7
40°	882.3
42.5°	832.8
45°	783.3
47.5°	730.1
50°	673.2
52.5°	614.5
55°	548.5
57.5°	484.3
60°	421.9
62.5°	361.4
65°	302.7
67.5°	247.6
70°	196.3
72.5°	148.6
75°	106.4
77.5°	69.7
80°	42.2
82.5°	25.7
85°	14.7
87.5°	7.3
90°	0.0



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— 0°-180°







(END OF REPORT)