

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: P205808

Luminaire Tested: **LD4B20D010 EU4B10208030 4LBSWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P205808
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: LD4B20D010 EU4B10208030 4LBSWH1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH WHEAT TRIM
WATTAGE D010TR-21.86W DE010-20.46W D5LT-21.24W DMX-20.89W DL2-22.5W
DL3-21.8 6W DLE-22.46W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1999.9 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 1.08
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

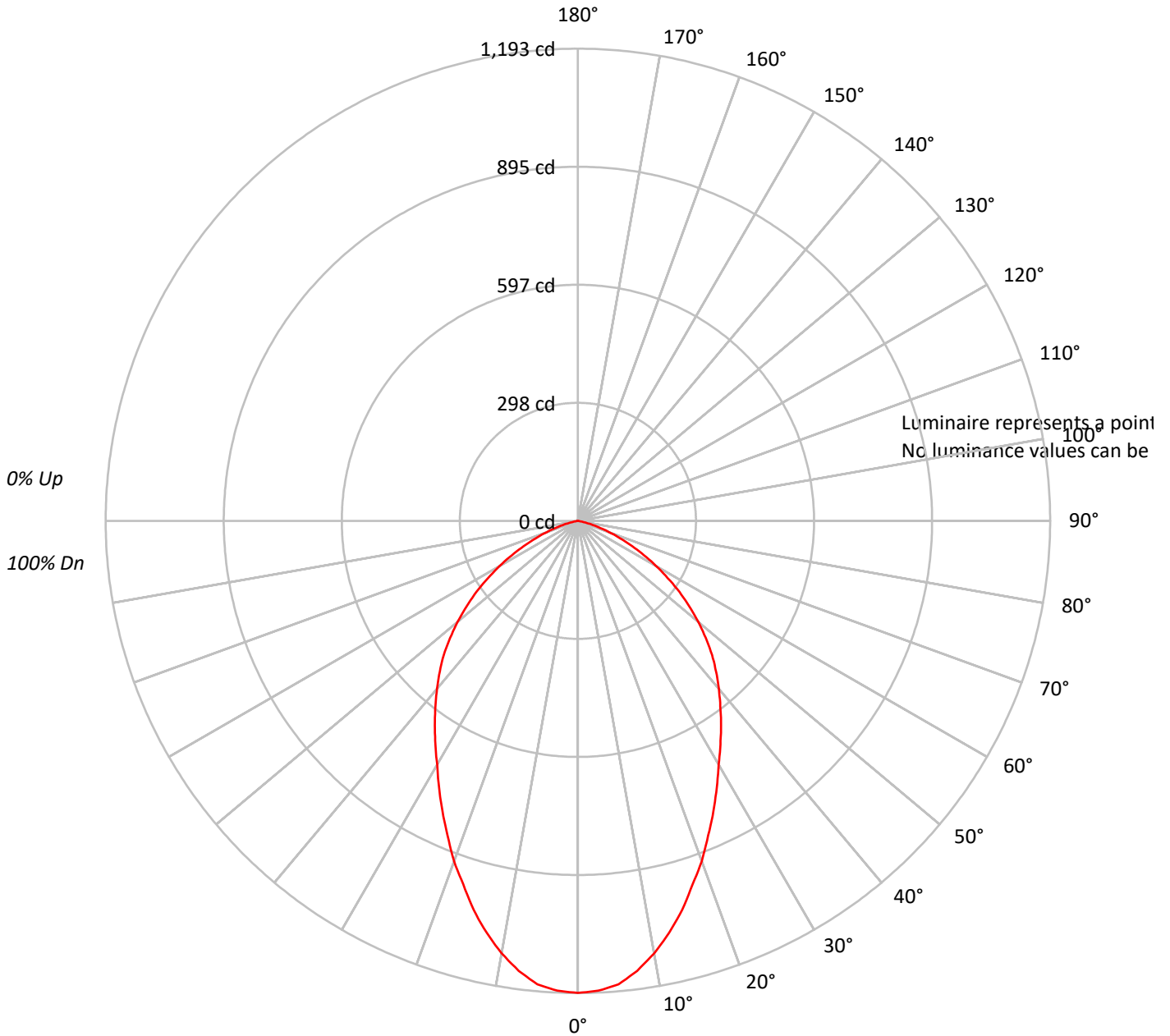
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77			
3	95	86	79	73	93	84	78	73	82	76	72	79	74	70	76	73	69	67			
4	88	77	70	64	86	76	69	63	74	68	63	72	66	62	69	65	61	59			
5	81	70	62	56	79	69	62	56	67	60	55	65	59	55	63	58	54	52			
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47			
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42			
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38			
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	37	35			
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32			

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	5.5
10°-20°	284.7	14.2
20°-30°	372.4	18.6
30°-40°	394.4	19.7
40°-50°	367.8	18.4
50°-60°	278.6	13.9
60°-70°	150.9	7.5
70°-80°	40.5	2.0
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°	767.2	38.4
0°-40°	1161.5	58.1
0°-60°	1807.9	90.4
0°-90°	1999.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1999.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1193	
5°	1175	110
15°	1018	285
25°	810	372
35°	630	394
45°	479	368
55°	313	279
65°	151	151
75°	35	40
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1192.7
2.5°	1188.3
5°	1175.2
7.5°	1146.7
10°	1109.5
12.5°	1065.8
15°	1017.6
17.5°	962.9
20°	914.8
22.5°	860.1
25°	809.7
27.5°	759.4
30°	711.2
32.5°	669.7
35°	630.3
37.5°	590.9
40°	553.7
42.5°	516.5
45°	479.3
47.5°	437.7
50°	396.1
52.5°	354.5
55°	312.9
57.5°	269.2
60°	227.6
62.5°	188.2
65°	151.0
67.5°	116.0
70°	85.3
72.5°	59.1
75°	35.0
77.5°	15.3
80°	4.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)