

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: P211612

Luminaire Tested: **LE_4B20D010 EC4B10209030 4LBW1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211612
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: LE_4B20D010 EC4B10209030 4LBW1MW
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTION WITH MATTE WHITE 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: 1752.4 lumens
Efficiency: N/A
Efficacy: 84.2 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

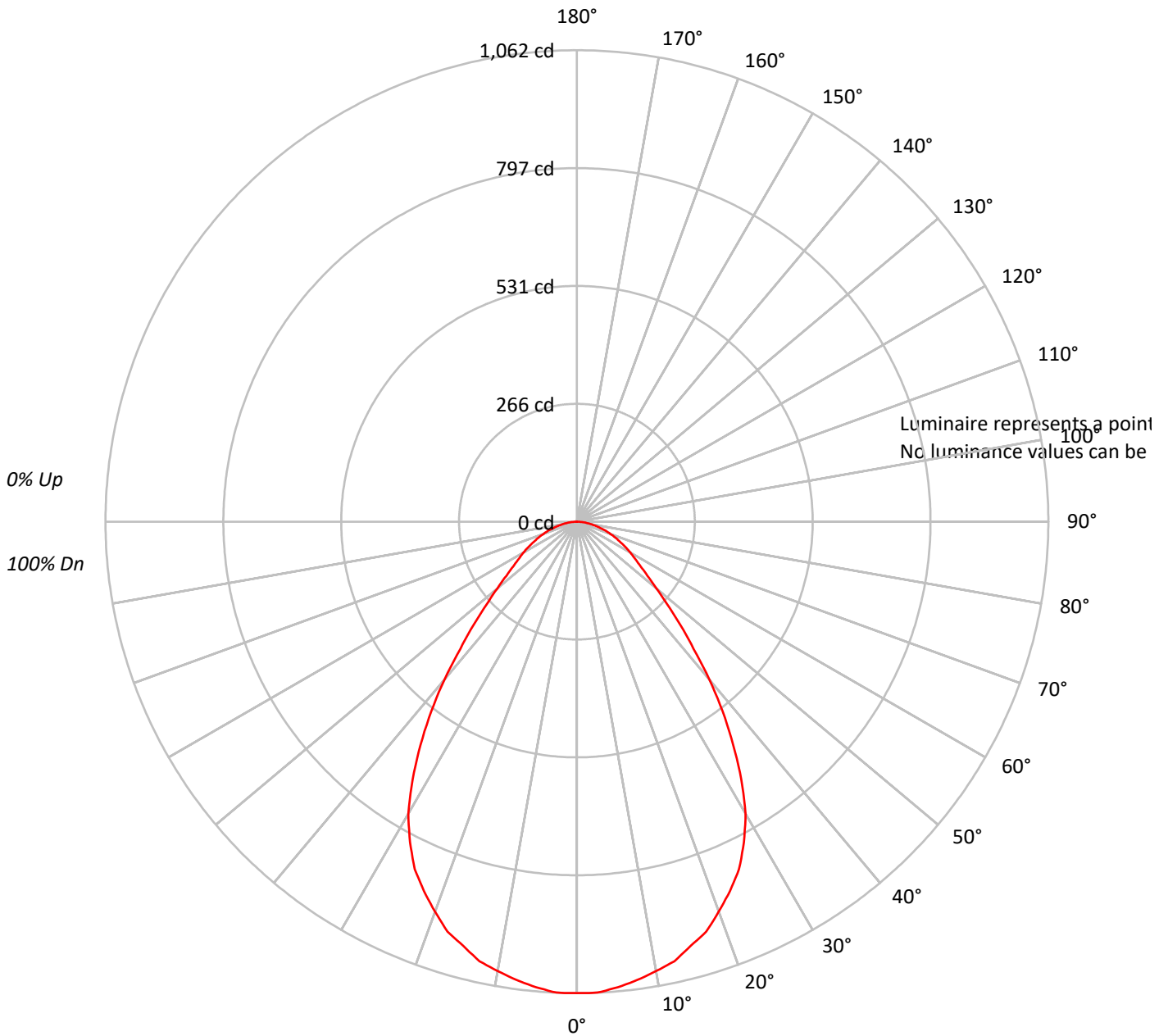
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.7	5.7
10°-20°	278.8	15.9
20°-30°	394.1	22.5
30°-40°	381.7	21.8
40°-50°	257.6	14.7
50°-60°	159.8	9.1
60°-70°	106.8	6.1
70°-80°	58.4	3.3
80°-90°	15.4	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°	772.6	44.1
0°-40°	1154.3	65.9
0°-60°	1571.7	89.7
0°-90°	1752.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1752.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1062	
5°	1053	100
15°	989	279
25°	864	394
35°	614	382
45°	330	258
55°	175	160
65°	107	107
75°	54	58
85°	14	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1062.0
2.5°	1062.0
5°	1052.8
7.5°	1041.4
10°	1027.9
12.5°	1014.2
15°	989.1
17.5°	968.7
20°	934.6
22.5°	900.5
25°	864.1
27.5°	814.1
30°	759.6
32.5°	689.0
35°	614.0
37.5°	538.9
40°	463.9
42.5°	388.8
45°	329.7
47.5°	275.2
50°	234.2
52.5°	200.1
55°	175.0
57.5°	154.6
60°	138.7
62.5°	122.8
65°	106.8
67.5°	93.3
70°	79.6
72.5°	68.2
75°	54.5
77.5°	43.2
80°	31.8
82.5°	22.7
85°	13.7
87.5°	4.5
90°	0.0



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— 0°-180°







(END OF REPORT)