

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: P211498

Luminaire Tested: **LE_4B20D010 EC4B10209027 4LBCSM1B**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211498
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 EC4B10209027 4LBCSM1B
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST MATTE METALLIC SILVER 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: 1884.8 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

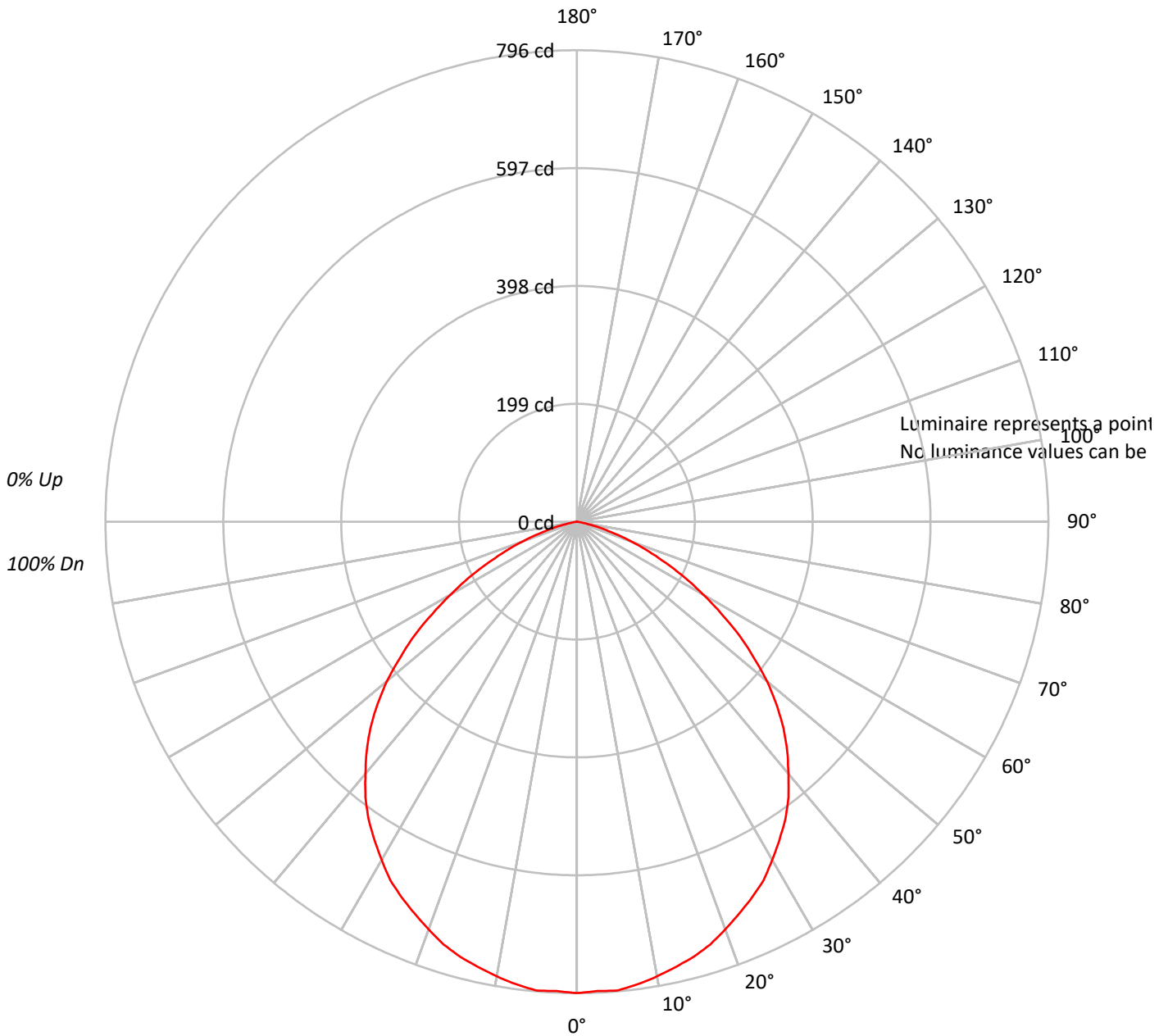
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88			
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75			
3	93	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	65			
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56			
5	79	67	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49			
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	39			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35			
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31			
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28			

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.3	4.0
10°-20°	214.4	11.4
20°-30°	322.4	17.1
30°-40°	382.6	20.3
40°-50°	378.5	20.1
50°-60°	297.3	15.8
60°-70°	166.7	8.8
70°-80°	46.8	2.5
80°-90°	0.7	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°	612.1	32.5
0°-40°	994.7	52.8
0°-60°	1670.6	88.6
0°-90°	1884.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1884.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	796	
5°	794	75
15°	761	214
25°	700	322
35°	613	383
45°	493	379
55°	335	297
65°	166	167
75°	40	47
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	795.9
2.5°	793.2
5°	794.5
7.5°	787.8
10°	779.6
12.5°	770.2
15°	760.7
17.5°	748.5
20°	732.4
22.5°	716.2
25°	699.9
27.5°	682.4
30°	659.5
32.5°	636.5
35°	613.4
37.5°	586.5
40°	555.4
42.5°	525.6
45°	493.2
47.5°	456.7
50°	418.9
52.5°	375.6
55°	335.1
57.5°	289.2
60°	245.9
62.5°	206.7
65°	166.2
67.5°	131.1
70°	97.3
72.5°	66.2
75°	40.5
77.5°	20.3
80°	5.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)