

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: P211643

Luminaire Tested: **LE_4B20D010 EC4B10208035 4LBCSM1B**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211643
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 EC4B10208035 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: 2352.2 lumens
Efficiency: N/A
Efficacy: 113.1 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

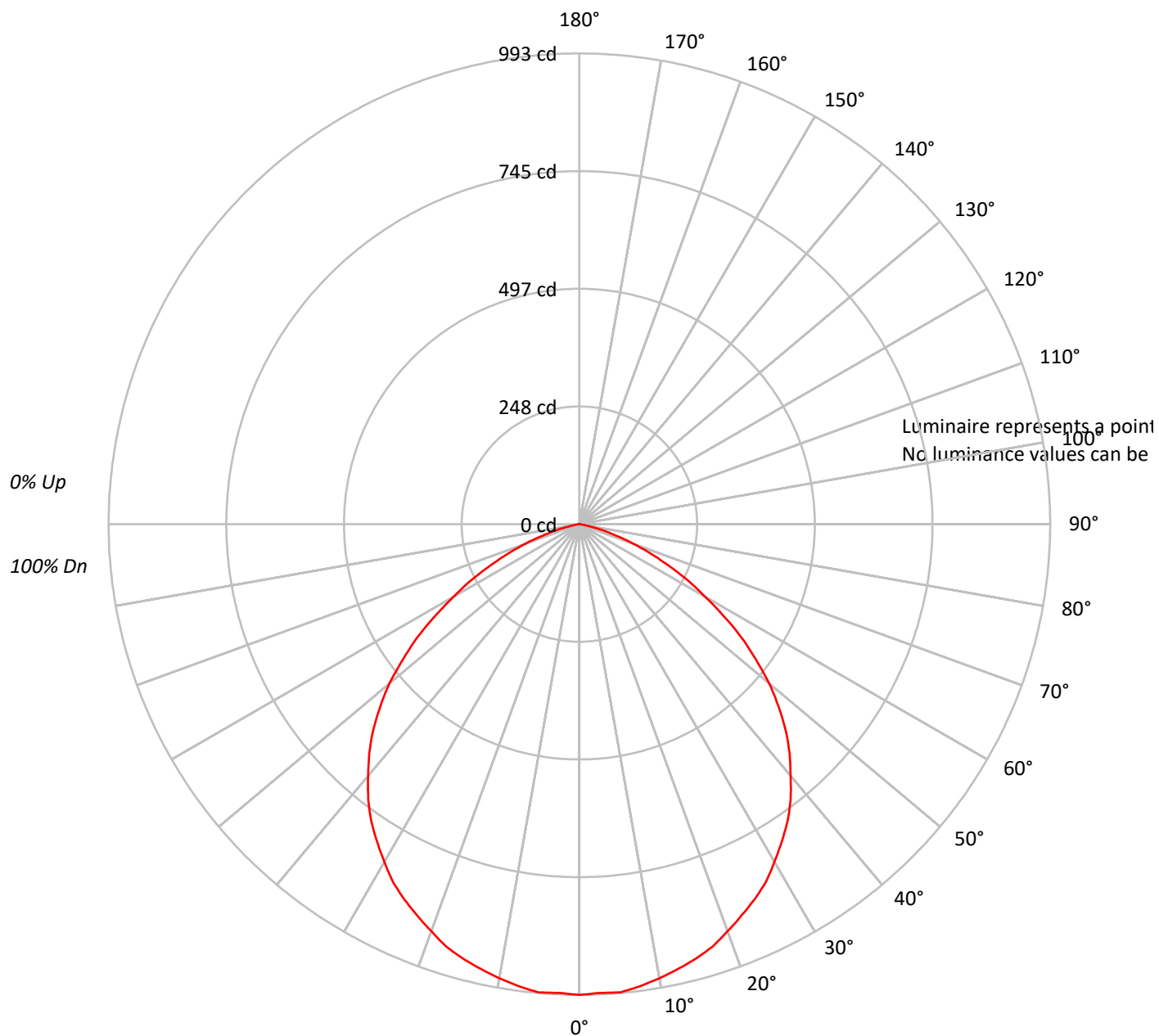
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	103	100	108	104	101	98		100	98	95		96	94	92		93	91	90
2	102	95	89	84	99	93	87	83		89	85	81		86	82	79		83	80	77
3	93	84	77	71	91	83	76	70		80	74	69		77	72	68		74	70	67
4	86	75	67	61	84	74	66	61		71	65	60		69	63	59		67	62	58
5	79	67	59	53	77	66	59	53		64	57	52		62	56	52		61	55	51
6	74	61	53	47	72	60	52	46		58	51	46		57	50	46		55	50	45
7	68	55	47	41	67	55	47	41		53	46	41		52	45	41		50	45	40
8	64	51	43	37	62	50	42	37		49	42	37		48	41	37		46	41	36
9	60	47	39	33	58	46	39	33		45	38	33		44	38	33		43	37	33
10	56	43	35	30	55	43	35	30		42	35	30		41	34	30		40	34	30

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	4.0
10°-20°	267.6	11.4
20°-30°	402.3	17.1
30°-40°	477.4	20.3
40°-50°	472.4	20.1
50°-60°	371.1	15.8
60°-70°	208.1	8.8
70°-80°	58.4	2.5
80°-90°	0.9	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°	763.9	32.5
0°-40°	1241.3	52.8
0°-60°	2084.9	88.6
0°-90°	2352.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2352.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	993	
5°	992	94
15°	949	268
25°	874	402
35°	766	477
45°	616	472
55°	418	371
65°	207	208
75°	51	58
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	993.2
2.5°	989.8
5°	991.6
7.5°	983.1
10°	973.0
12.5°	961.2
15°	949.3
17.5°	934.3
20°	914.0
22.5°	893.8
25°	873.5
27.5°	851.6
30°	822.9
32.5°	794.3
35°	765.6
37.5°	731.8
40°	693.1
42.5°	656.0
45°	615.5
47.5°	570.0
50°	522.8
52.5°	468.8
55°	418.2
57.5°	360.9
60°	306.9
62.5°	258.0
65°	207.4
67.5°	163.6
70°	121.5
72.5°	82.6
75°	50.6
77.5°	25.3
80°	6.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)