

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: P211691

Luminaire Tested: **LE_4B20D010 EC4B10209035 4LBS1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211691
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 EC4B10209035 4LBS1LI
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH SPECULAR CLEAR 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: 2084.5 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

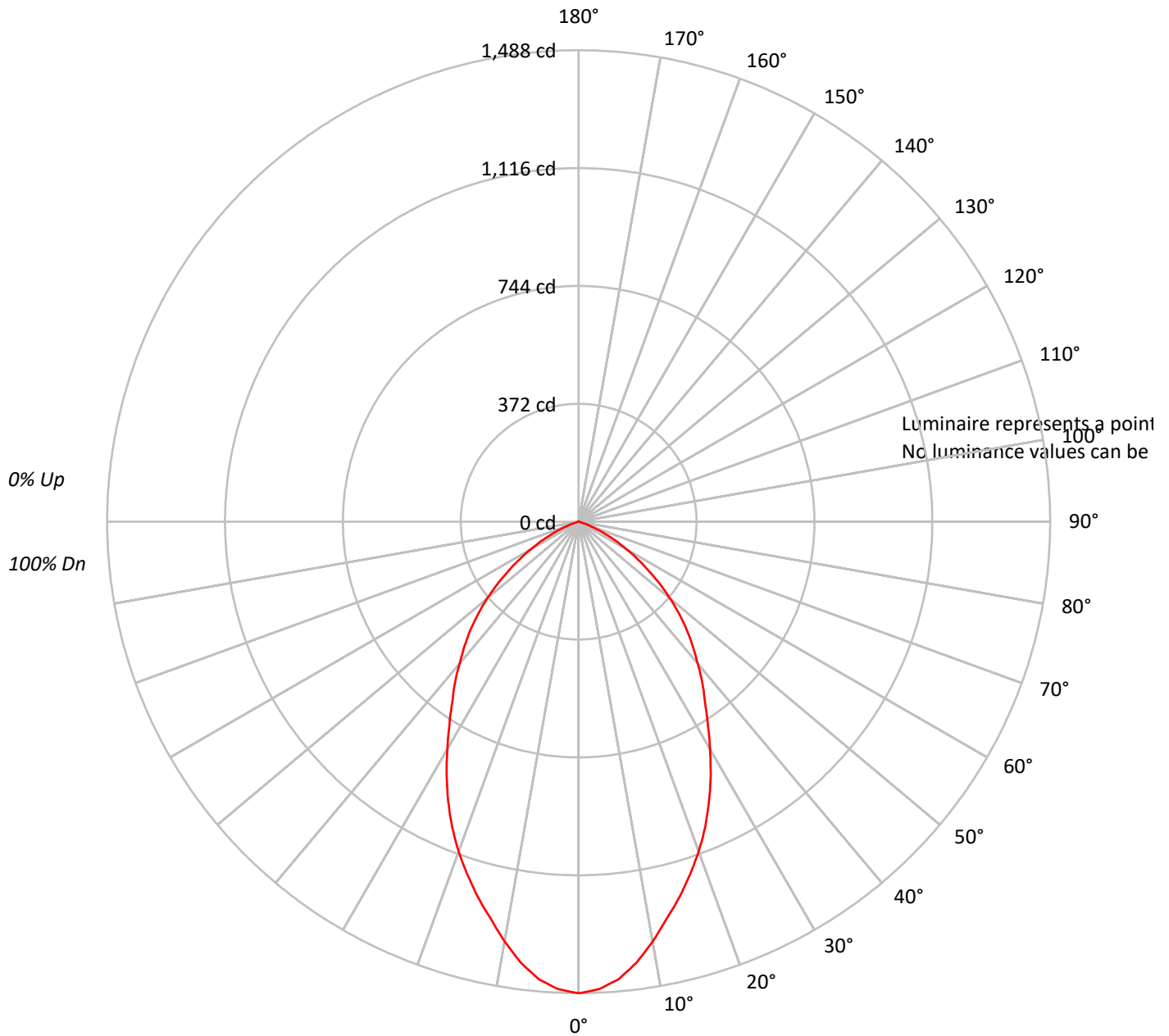
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





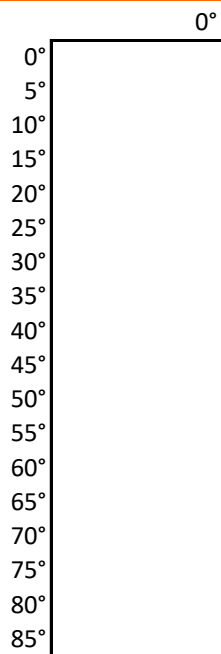
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
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	112	108	105	102	109	106	103	101		102	100	98		98	96	95		95	93	92
2	104	98	93	88	102	96	91	87		93	89	85		90	86	84		87	84	82
3	97	89	82	77	95	87	81	77		84	79	75		82	78	74		79	76	73
4	90	81	73	68	88	79	73	68		77	71	67		75	70	66		73	69	65
5	84	73	66	61	82	72	65	60		70	64	60		69	63	59		67	62	59
6	79	67	60	54	77	66	59	54		65	58	54		63	58	53		62	57	53
7	74	62	54	49	72	61	54	49		60	53	49		58	53	48		57	52	48
8	69	57	50	45	68	57	50	45		55	49	45		54	49	44		53	48	44
9	65	53	46	41	64	53	46	41		52	45	41		51	45	41		50	44	41
10	61	50	43	38	60	49	42	38		48	42	38		47	42	38		46	41	37

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	6.5
10°-20°	344.2	16.5
20°-30°	446.0	21.4
30°-40°	437.0	21.0
40°-50°	370.4	17.8
50°-60°	242.8	11.6
60°-70°	97.6	4.7
70°-80°	11.1	0.5
80°-90°	0.3	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°	925.2	44.4
0°-40°	1362.2	65.3
0°-60°	1975.4	94.8
0°-90°	2084.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2084.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1488	
5°	1449	135
15°	1228	344
25°	974	446
35°	695	437
45°	482	370
55°	270	243
65°	95	98
75°	5	11
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1488.4
2.5°	1476.8
5°	1449.2
7.5°	1403.0
10°	1345.4
12.5°	1283.0
15°	1227.6
17.5°	1167.7
20°	1107.7
22.5°	1043.1
25°	973.8
27.5°	902.2
30°	828.5
32.5°	759.2
35°	694.6
37.5°	641.5
40°	583.8
42.5°	533.0
45°	482.3
47.5°	429.2
50°	376.2
52.5°	323.1
55°	269.9
57.5°	221.6
60°	175.4
62.5°	133.9
65°	94.7
67.5°	62.3
70°	36.9
72.5°	16.1
75°	4.6
77.5°	2.3
80°	2.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)