

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: P208381

Luminaire Tested: **LD4B20D010 EU4B10208027 4LBSLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208381
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 EU4B10208027 4LBSLI1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
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: 1984.5 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

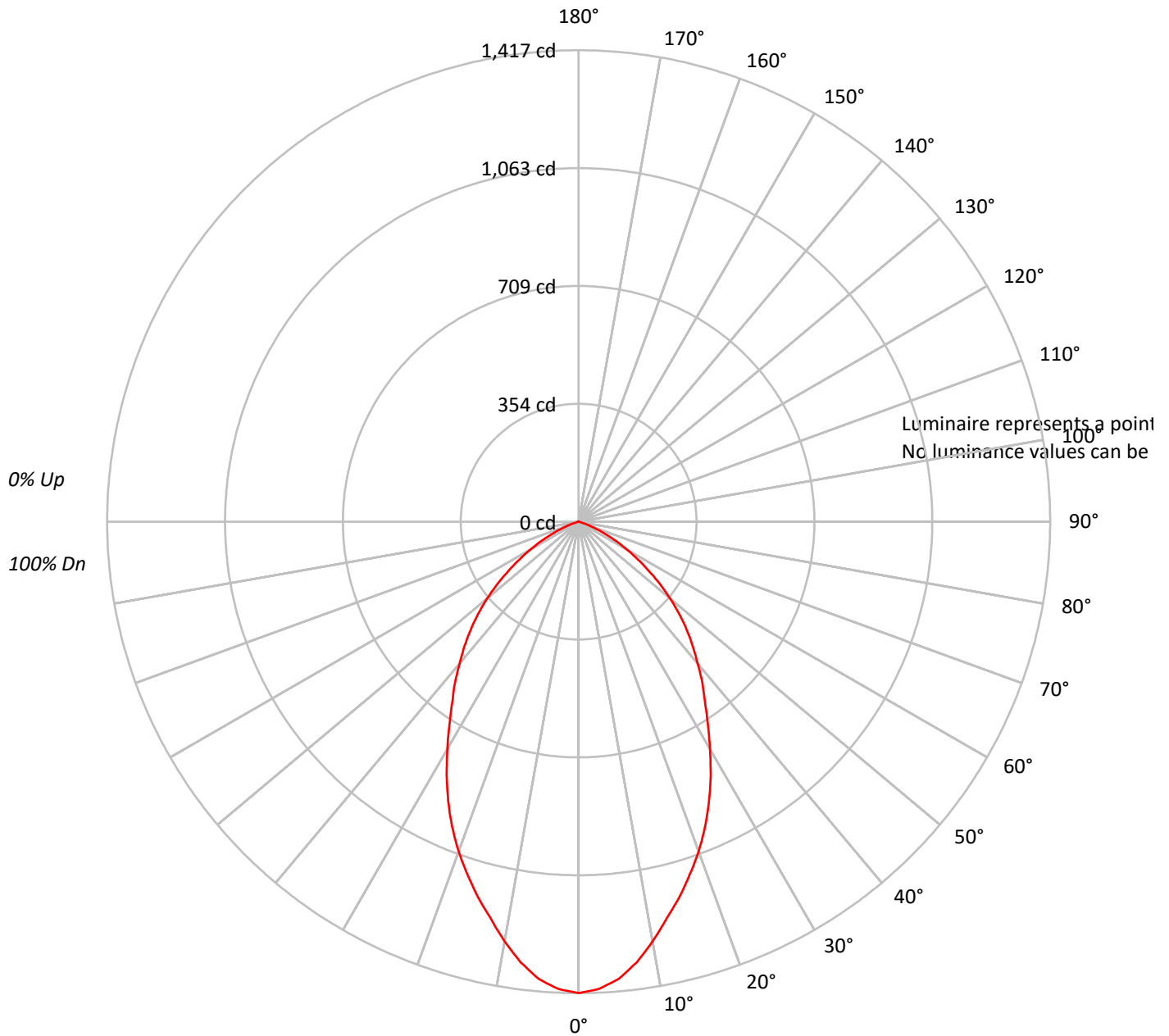
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





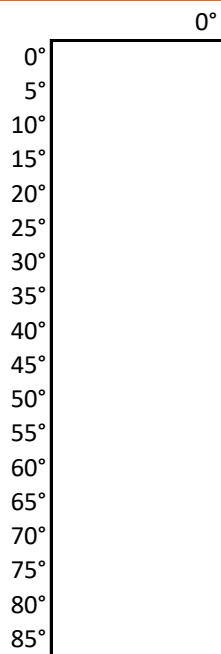
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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°	128.5	6.5
10°-20°	327.7	16.5
20°-30°	424.6	21.4
30°-40°	416.0	21.0
40°-50°	352.6	17.8
50°-60°	231.2	11.6
60°-70°	92.9	4.7
70°-80°	10.6	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°	880.8	44.4
0°-40°	1296.8	65.3
0°-60°	1880.7	94.8
0°-90°	1984.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1984.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1417	
5°	1380	128
15°	1169	328
25°	927	425
35°	661	416
45°	459	353
55°	257	231
65°	90	93
75°	4	11
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1417.0
2.5°	1406.0
5°	1379.6
7.5°	1335.7
10°	1280.8
12.5°	1221.5
15°	1168.7
17.5°	1111.6
20°	1054.5
22.5°	993.0
25°	927.1
27.5°	859.0
30°	788.7
32.5°	722.8
35°	661.3
37.5°	610.7
40°	555.8
42.5°	507.5
45°	459.1
47.5°	408.6
50°	358.1
52.5°	307.6
55°	257.0
57.5°	210.9
60°	167.0
62.5°	127.4
65°	90.1
67.5°	59.3
70°	35.2
72.5°	15.4
75°	4.4
77.5°	2.2
80°	2.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)