

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: P208392

Luminaire Tested: **LD4B20D010 EU4B10209727 4LBSLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208392
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 EU4B10209727 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: 1481.4 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

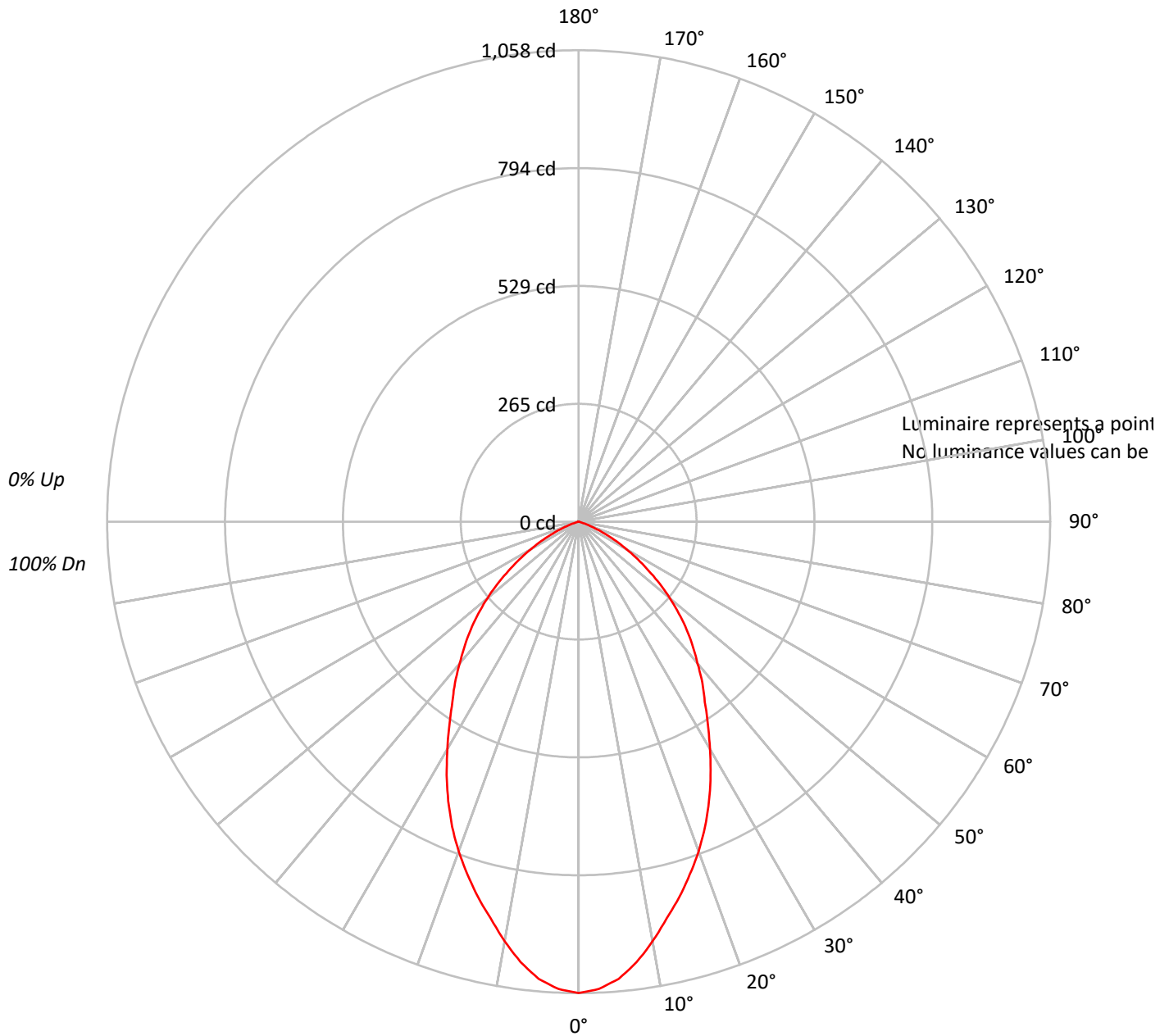
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P208392

CATALOG NUMBER: LD4B20D010 EU4B10209727 4LBSLI1

Luminous Intensity Polar Plot





TEST NUMBER: P208392

CATALOG NUMBER: LD4B20D010 EU4B10209727 4LBSLI1

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):





TEST NUMBER: P208392

CATALOG NUMBER: LD4B20D010 EU4B10209727 4LBSLI1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.9	6.5
10°-20°	244.6	16.5
20°-30°	317.0	21.4
30°-40°	310.6	21.0
40°-50°	263.2	17.8
50°-60°	172.6	11.6
60°-70°	69.3	4.7
70°-80°	7.9	0.5
80°-90°	0.2	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°	657.5	44.4
0°-40°	968.1	65.4
0°-60°	1403.9	94.8
0°-90°	1481.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1481.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1058	
5°	1030	96
15°	872	245
25°	692	317
35°	494	311
45°	343	263
55°	192	173
65°	67	69
75°	3	8
85°	0	0
90°	0	



TEST NUMBER: P208392

CATALOG NUMBER: LD4B20D010 EU4B10209727 4LBSLI1

CANDELA DISTRIBUTION (FULL):

0°	
0°	1057.8
2.5°	1049.6
5°	1029.9
7.5°	997.1
10°	956.1
12.5°	911.8
15°	872.5
17.5°	829.8
20°	787.2
22.5°	741.3
25°	692.1
27.5°	641.2
30°	588.8
32.5°	539.6
35°	493.6
37.5°	455.9
40°	414.9
42.5°	378.8
45°	342.8
47.5°	305.0
50°	267.3
52.5°	229.6
55°	191.9
57.5°	157.4
60°	124.6
62.5°	95.1
65°	67.2
67.5°	44.3
70°	26.2
72.5°	11.5
75°	3.3
77.5°	1.6
80°	1.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)