

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: P205809

Luminaire Tested: **LD4B20D010 EU4B10208035 4LBSWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P205809
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 EU4B10208035 4LBSWH1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH WHEAT 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: 2049.4 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 1.08
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

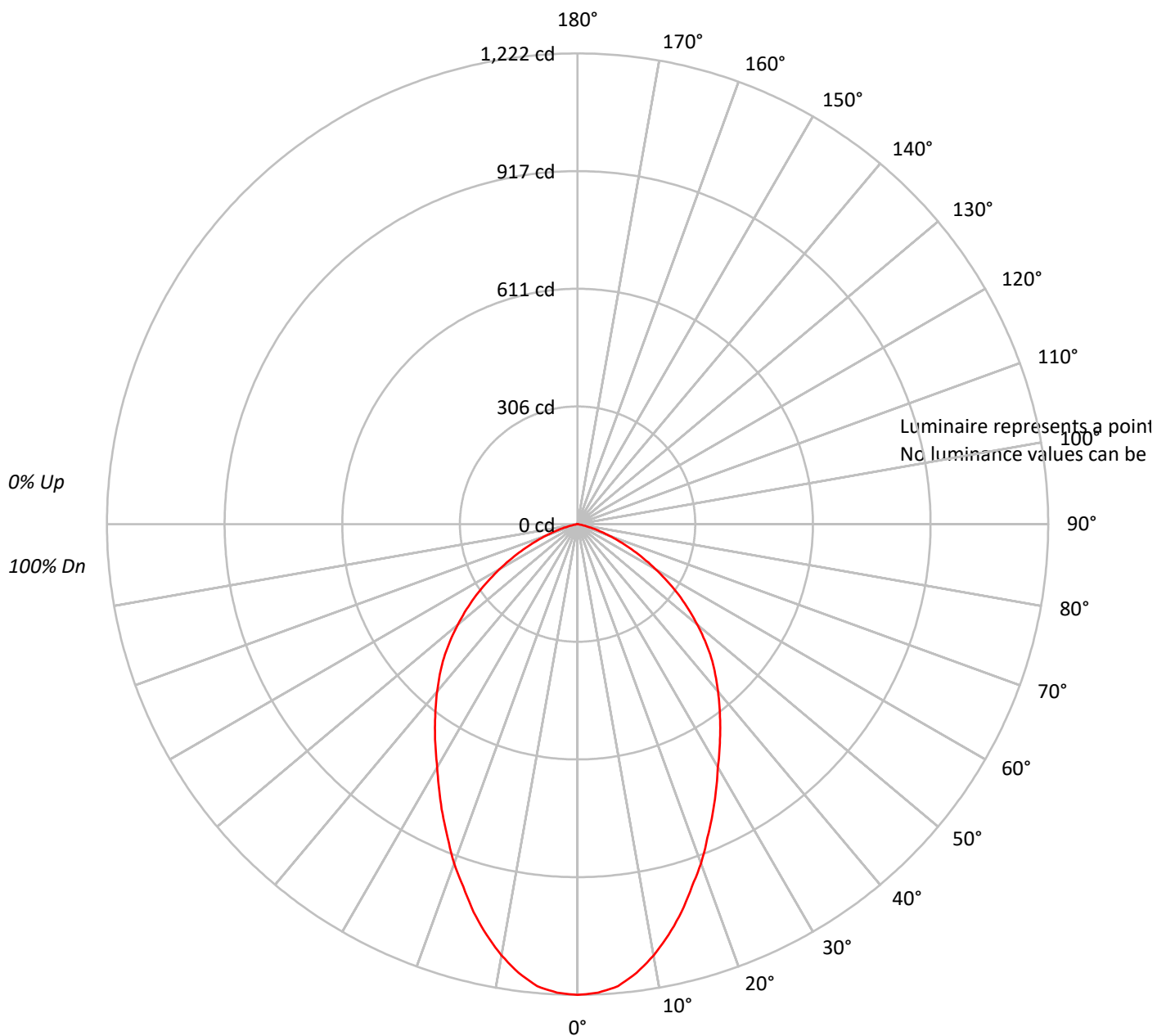
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99		101	98	96		97	95	93		94	92	90
2	103	96	90	85	100	94	89	84		91	86	83		87	84	81		85	82	79
3	95	86	79	73	93	84	78	73		82	76	72		79	74	70		76	73	69
4	88	77	70	64	86	76	69	63		74	68	63		72	66	62		69	65	61
5	81	70	62	56	79	69	62	56		67	60	55		65	59	55		63	58	54
6	76	64	56	50	74	63	55	50		61	54	49		60	54	49		58	53	49
7	71	58	51	45	69	58	50	45		56	49	45		55	49	44		54	48	44
8	66	54	46	41	65	53	46	41		52	45	40		51	45	40		50	44	40
9	62	50	42	37	61	49	42	37		48	41	37		47	41	37		46	41	37
10	58	46	39	34	57	46	39	34		45	38	34		44	38	34		43	38	34

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	5.5
10°-20°	291.8	14.2
20°-30°	381.6	18.6
30°-40°	404.1	19.7
40°-50°	376.9	18.4
50°-60°	285.5	13.9
60°-70°	154.6	7.5
70°-80°	41.5	2.0
80°-90°	0.6	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°	786.2	38.4
0°-40°	1190.3	58.1
0°-60°	1852.6	90.4
0°-90°	2049.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2049.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1222	
5°	1204	113
15°	1043	292
25°	830	382
35°	646	404
45°	491	377
55°	321	285
65°	155	155
75°	36	42
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1222.2
2.5°	1217.7
5°	1204.3
7.5°	1175.1
10°	1137.0
12.5°	1092.2
15°	1042.8
17.5°	986.8
20°	937.4
22.5°	881.3
25°	829.8
27.5°	778.2
30°	728.9
32.5°	686.2
35°	645.9
37.5°	605.5
40°	567.4
42.5°	529.3
45°	491.1
47.5°	448.5
50°	405.9
52.5°	363.3
55°	320.7
57.5°	275.8
60°	233.2
62.5°	192.9
65°	154.7
67.5°	118.9
70°	87.5
72.5°	60.6
75°	35.9
77.5°	15.7
80°	4.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)