

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: P206432

Luminaire Tested: **LD4B20D010 EU4B10208035 4LBCSMB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206432
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 4LBCSMB1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
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: 2027.8 lumens
Efficiency: N/A
Efficacy: 97.5 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

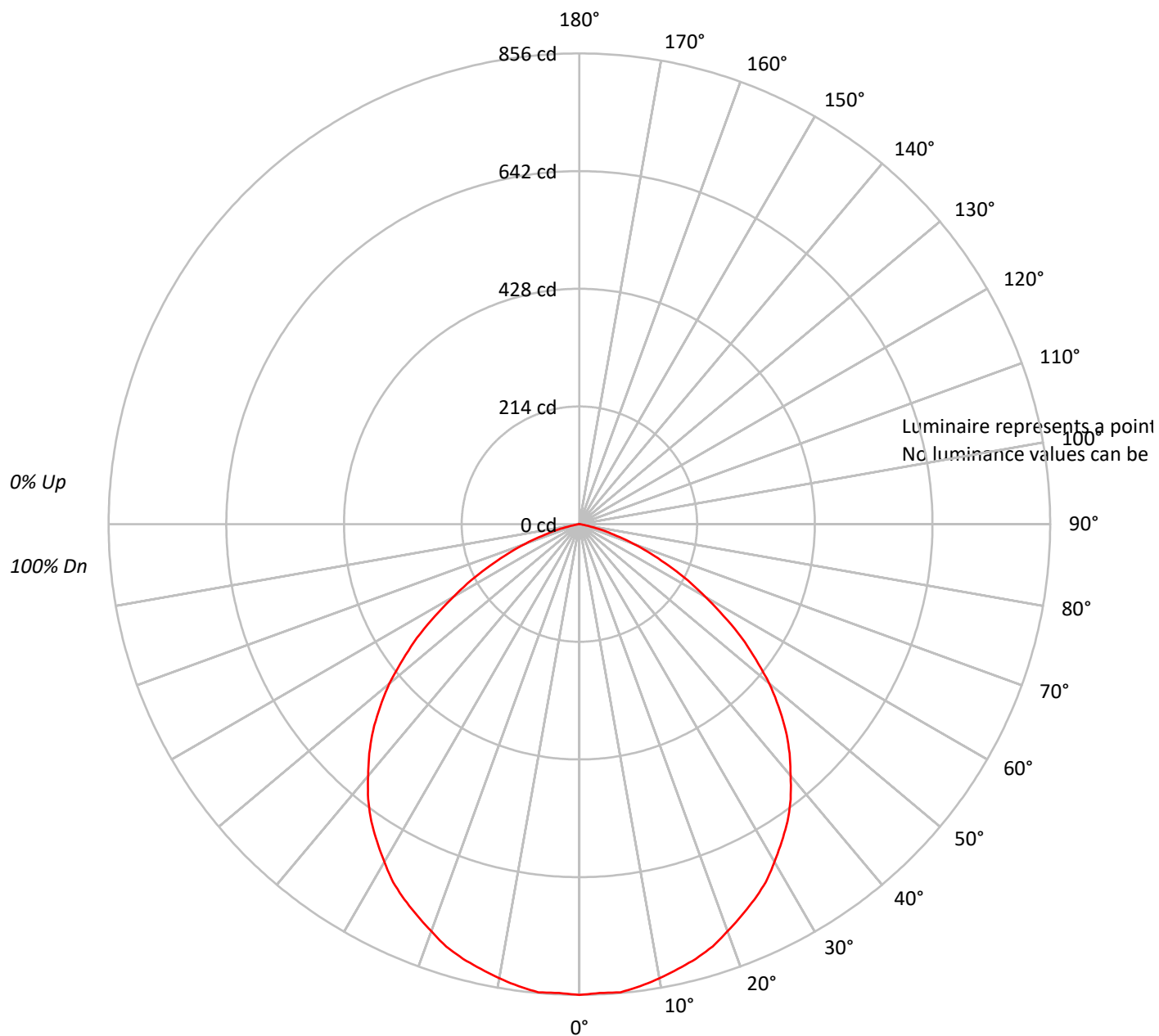
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





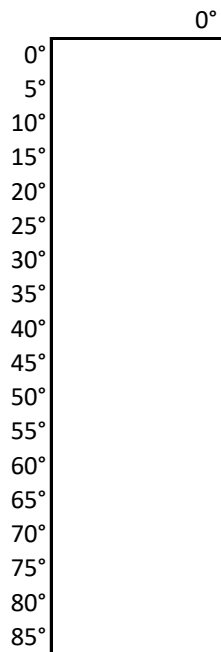
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	104	101	98	100	98	95		96	94	92		93
2	102	95	89	84	99	93	87	83	89	85	81		86	82	79		83
3	93	84	77	71	91	83	76	70	80	74	69		77	72	68		74
4	86	75	67	61	84	74	66	61	71	65	60		69	63	59		67
5	79	67	59	53	77	66	59	53	64	57	52		62	56	52		61
6	74	61	53	47	72	60	52	46	58	51	46		57	50	46		55
7	68	55	47	41	67	55	47	41	53	46	41		52	45	41		50
8	64	51	43	37	62	50	42	37	49	42	37		48	41	37		46
9	60	47	39	33	58	46	39	33	45	38	33		44	38	33		43
10	56	43	35	30	55	43	35	30	42	35	30		41	34	30		40

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	4.0
10°-20°	230.7	11.4
20°-30°	346.8	17.1
30°-40°	411.5	20.3
40°-50°	407.3	20.1
50°-60°	319.9	15.8
60°-70°	179.4	8.8
70°-80°	50.4	2.5
80°-90°	0.8	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°	658.6	32.5
0°-40°	1070.1	52.8
0°-60°	1797.3	88.6
0°-90°	2027.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2027.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	856	
5°	855	81
15°	818	231
25°	753	347
35°	660	412
45°	531	407
55°	360	320
65°	179	179
75°	44	50
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	856.2
2.5°	853.3
5°	854.8
7.5°	847.5
10°	838.8
12.5°	828.6
15°	818.4
17.5°	805.4
20°	787.9
22.5°	770.5
25°	753.0
27.5°	734.1
30°	709.4
32.5°	684.7
35°	660.0
37.5°	630.9
40°	597.5
42.5°	565.5
45°	530.6
47.5°	491.4
50°	450.7
52.5°	404.1
55°	360.5
57.5°	311.1
60°	264.6
62.5°	222.4
65°	178.8
67.5°	141.0
70°	104.7
72.5°	71.2
75°	43.6
77.5°	21.8
80°	5.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)