

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: P206438

Luminaire Tested: **LD4B20D010 EU4B10209035 4LBCSMB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206438
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 EU4B10209035 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: 1714.3 lumens
Efficiency: N/A
Efficacy: 82.4 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

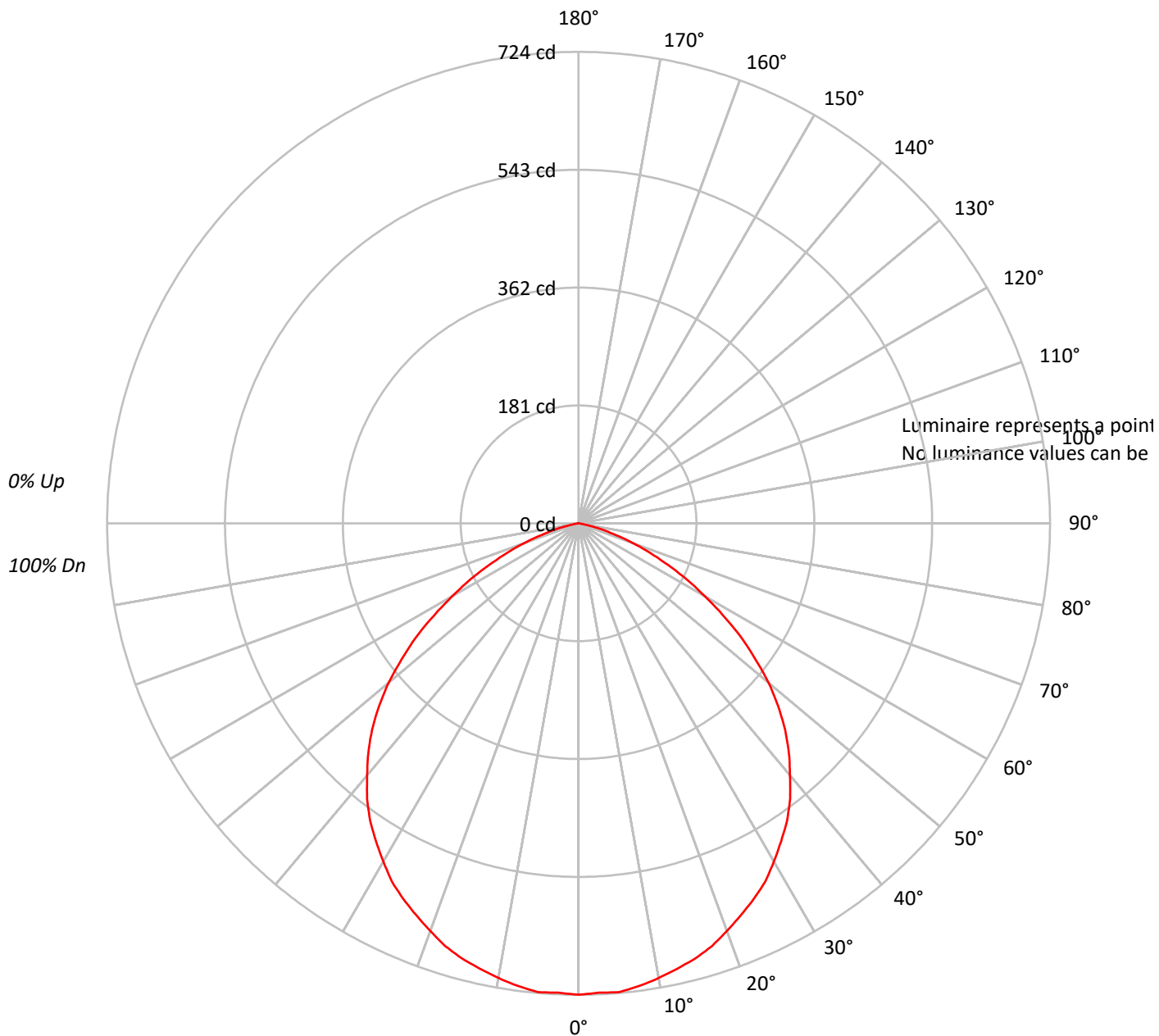
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot

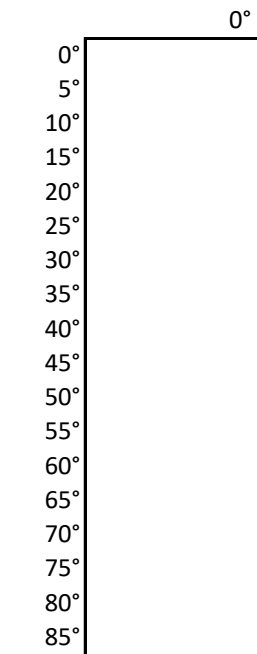


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
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	103	100	108	104	101	98		100	98	95		96	94	92		93	91	90
2	102	95	89	84	99	93	87	83		89	85	81		86	82	79		83	80	77
3	93	84	77	71	91	83	76	70		80	74	69		77	72	68		74	70	67
4	86	75	67	61	84	74	66	61		71	65	60		69	63	59		67	62	58
5	79	67	59	53	77	66	59	53		64	57	52		62	56	52		61	55	51
6	74	61	53	47	72	60	52	46		58	51	46		57	50	46		55	50	45
7	68	55	47	41	67	55	47	41		53	46	41		52	45	41		50	45	40
8	64	51	43	37	62	50	42	37		49	42	37		48	41	37		46	41	36
9	60	47	39	33	58	46	39	33		45	38	33		44	38	33		43	37	33
10	56	43	35	30	55	43	35	30		42	35	30		41	34	30		40	34	30

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	4.0
10°-20°	195.1	11.4
20°-30°	293.2	17.1
30°-40°	347.9	20.3
40°-50°	344.3	20.1
50°-60°	270.5	15.8
60°-70°	151.6	8.8
70°-80°	42.6	2.5
80°-90°	0.7	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°	556.7	32.5
0°-40°	904.7	52.8
0°-60°	1519.4	88.6
0°-90°	1714.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1714.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	724	
5°	723	68
15°	692	195
25°	637	293
35°	558	348
45°	449	344
55°	305	270
65°	151	152
75°	37	43
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	723.9
2.5°	721.4
5°	722.6
7.5°	716.5
10°	709.1
12.5°	700.5
15°	691.9
17.5°	680.9
20°	666.1
22.5°	651.4
25°	636.6
27.5°	620.6
30°	599.7
32.5°	578.9
35°	558.0
37.5°	533.4
40°	505.1
42.5°	478.1
45°	448.6
47.5°	415.4
50°	381.0
52.5°	341.7
55°	304.8
57.5°	263.0
60°	223.7
62.5°	188.0
65°	151.2
67.5°	119.2
70°	88.5
72.5°	60.2
75°	36.9
77.5°	18.4
80°	4.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)