

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: P207465

Luminaire Tested: **LD4B20D010 EU4B10209024 4LBMB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207465
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 EU4B10209024 4LBMB1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
MEDIUM DISTRIBUTION WITH SPECULAR BLACK 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: 602.4 lumens
Efficiency: N/A
Efficacy: 29.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.87
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

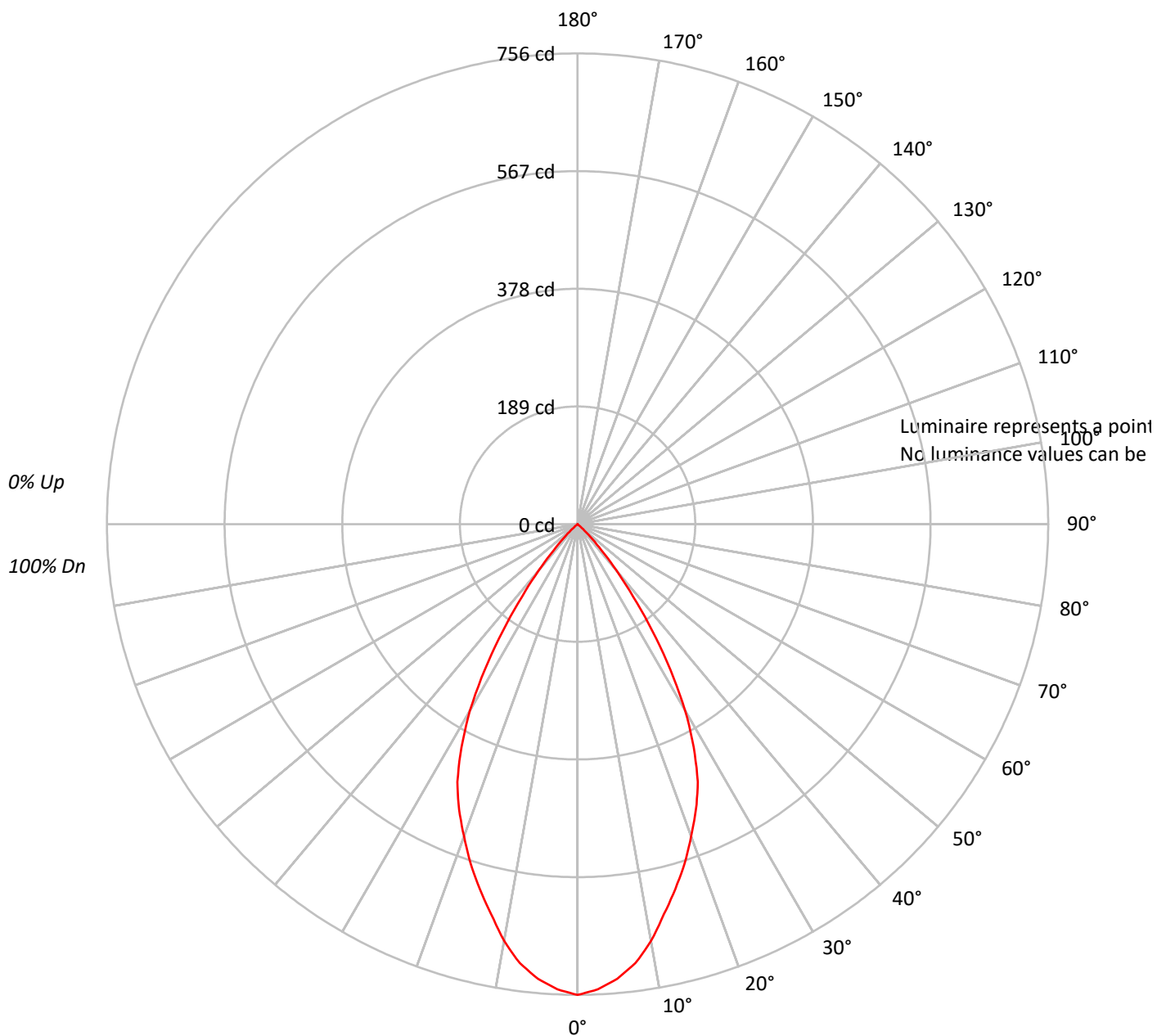
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	114	111	109	106	111	109	107	105		105	103	102			101	100	99			98
2	108	104	100	96	106	102	98	95		99	96	93			96	93	91			93
3	103	97	92	88	101	95	91	87		93	89	86			90	87	85			88
4	98	91	85	81	96	90	85	81		87	83	80			85	82	79			84
5	93	85	79	75	92	84	79	75		82	78	74			81	77	74			79
6	89	80	74	70	87	79	74	70		78	73	69			76	72	69			75
7	84	75	70	65	83	75	69	65		73	68	65			72	68	65			71
8	80	71	65	61	79	71	65	61		69	64	61			68	64	61			67
9	77	67	61	58	76	67	61	57		66	61	57			65	60	57			64
10	73	64	58	54	72	63	58	54		62	57	54			62	57	54			61

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	11.3
10°-20°	169.9	28.2
20°-30°	205.5	34.1
30°-40°	131.1	21.8
40°-50°	27.3	4.5
50°-60°	0.4	0.1
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	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°	443.7	73.6
0°-40°	574.7	95.4
0°-60°	602.4	100.0
0°-90°	602.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	602.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	756	
5°	733	68
15°	607	170
25°	457	205
35°	209	131
45°	28	27
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	756.2
2.5°	747.9
5°	732.9
7.5°	711.3
10°	679.7
12.5°	641.5
15°	606.6
17.5°	571.7
20°	533.5
22.5°	496.9
25°	457.0
27.5°	403.9
30°	345.7
32.5°	277.6
35°	209.4
37.5°	146.3
40°	96.4
42.5°	56.5
45°	28.3
47.5°	11.6
50°	3.3
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)