

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: P208493

Luminaire Tested: **LD4B20D010 EU4B10209040 4LBNWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208493
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 EU4B10209040 4LBNWH1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW 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: 1153.8 lumens
Efficiency: N/A
Efficacy: 55.5 lumens/watt
Spacing Criteria (0/90/45): 0.53 / 0.53 / 0.62
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

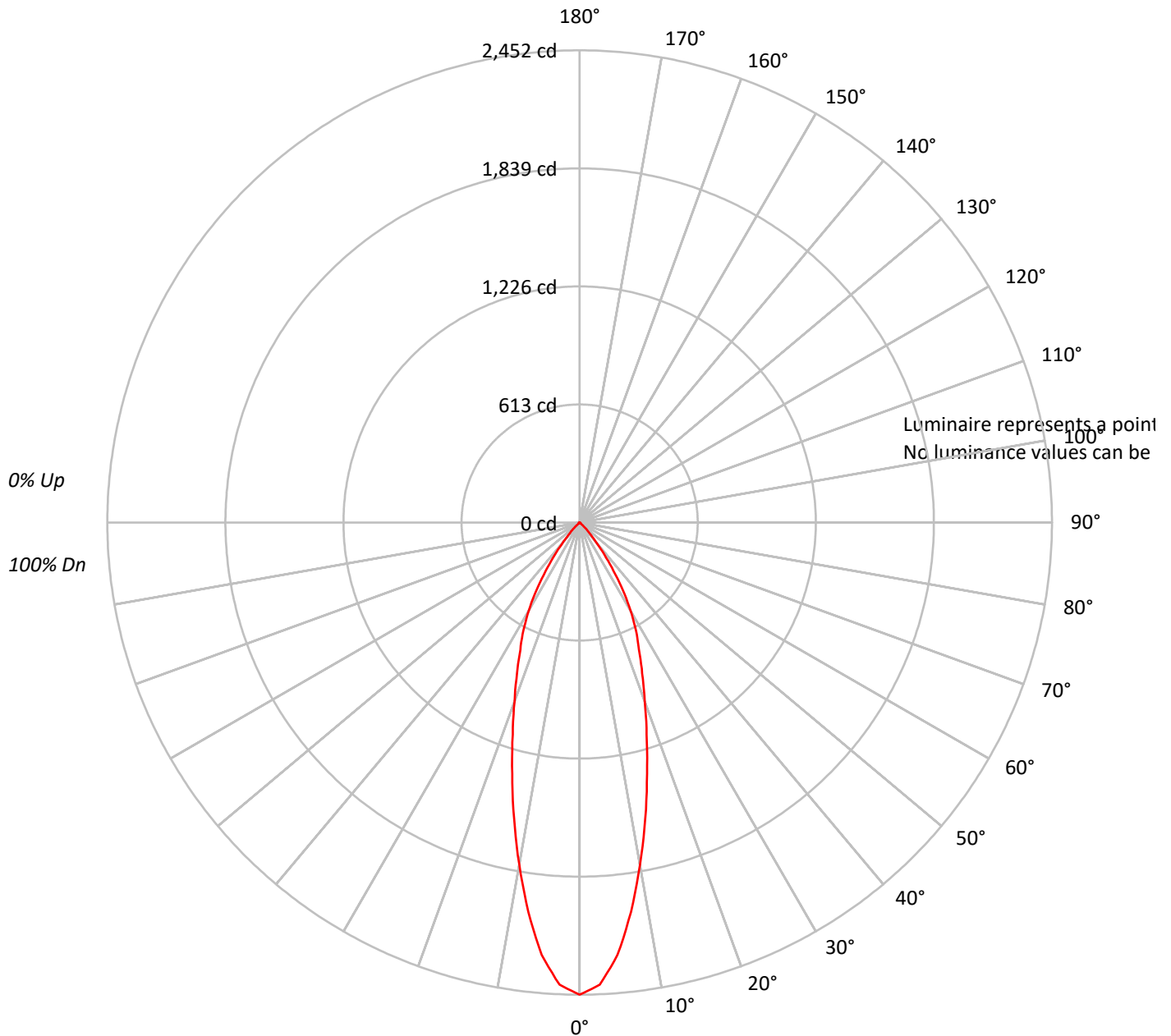
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





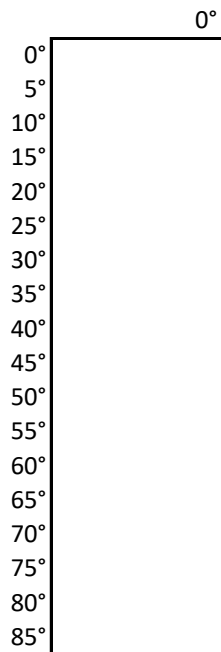
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	107	112	109	107	105		105	104	102			102	100	99			98
2	109	105	101	98	107	103	100	97		100	97	95			97	95	93			94
3	104	98	94	90	102	97	93	90		94	91	88			92	89	87			90
4	100	93	88	84	98	92	87	83		90	86	82			88	84	82			86
5	95	88	82	78	94	87	82	78		85	81	77			83	80	77			82
6	91	83	78	74	90	82	77	74		81	76	73			79	76	73			78
7	87	79	73	70	86	78	73	69		77	72	69			76	72	69			75
8	84	75	70	66	82	74	69	66		73	69	65			72	68	65			71
9	80	71	66	62	79	71	66	62		70	65	62			69	65	62			68
10	77	68	63	59	76	68	63	59		67	62	59			66	62	59			66

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.5	17.4
10°-20°	376.1	32.6
20°-30°	337.5	29.2
30°-40°	193.7	16.8
40°-50°	38.6	3.3
50°-60°	4.9	0.4
60°-70°	2.2	0.2
70°-80°	0.3	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°	914.1	79.2
0°-40°	1107.8	96.0
0°-60°	1151.3	99.8
0°-90°	1153.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1153.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2452	
5°	2255	201
15°	1350	376
25°	729	337
35°	307	194
45°	42	39
55°	6	5
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2452.1
2.5°	2402.3
5°	2254.9
7.5°	2039.7
10°	1804.7
12.5°	1573.6
15°	1350.5
17.5°	1155.3
20°	988.0
22.5°	848.6
25°	729.0
27.5°	633.4
30°	527.9
32.5°	420.3
35°	306.8
37.5°	209.2
40°	129.5
42.5°	77.7
45°	41.8
47.5°	17.9
50°	8.0
52.5°	6.0
55°	6.0
57.5°	4.0
60°	4.0
62.5°	2.0
65°	2.0
67.5°	2.0
70°	2.0
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)