

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: P206018

Luminaire Tested: **LD4B20D010 EU4B10208040 4LBSB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206018
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 EU4B10208040 4LBSB1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW 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: 1810.8 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

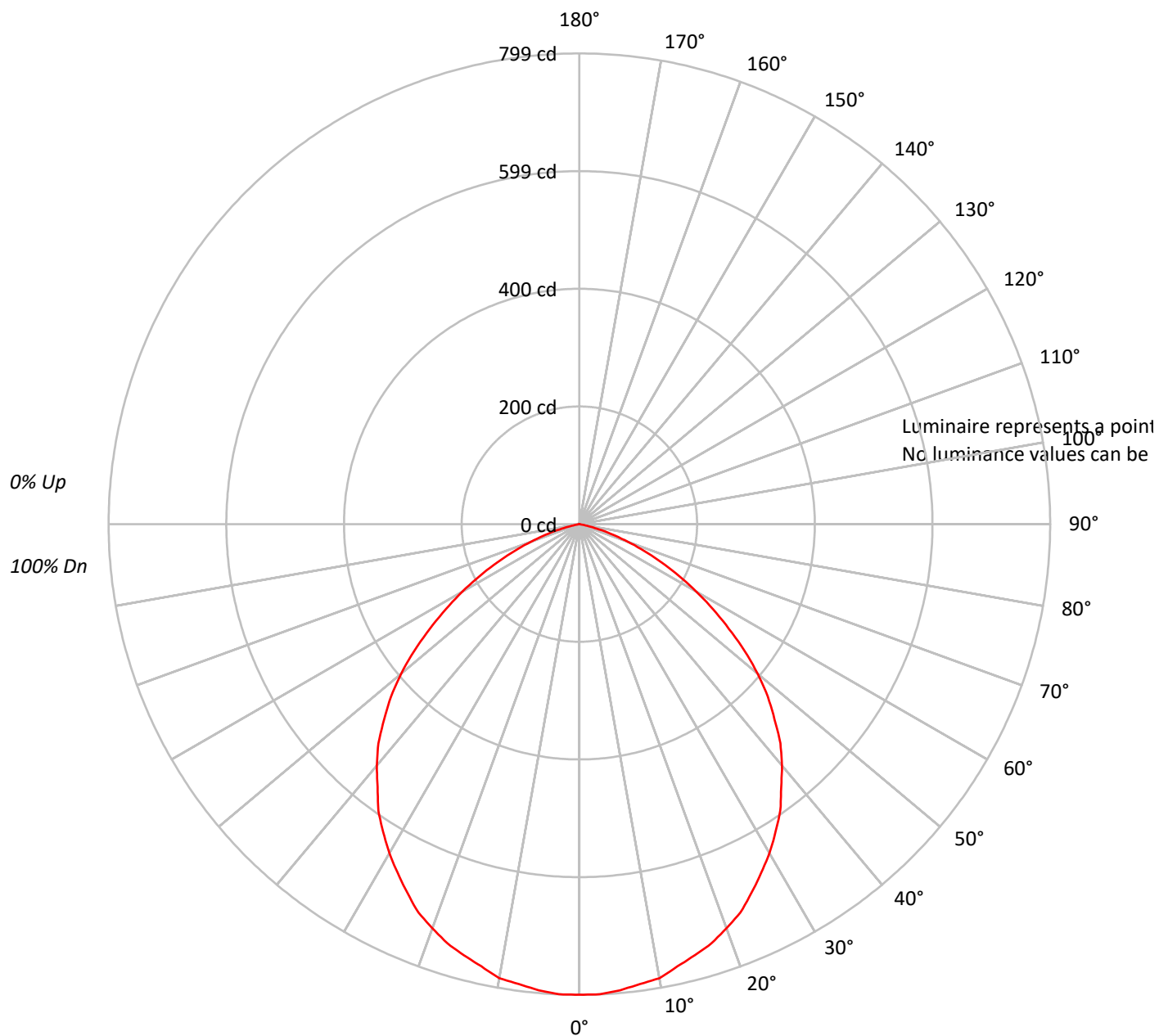
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





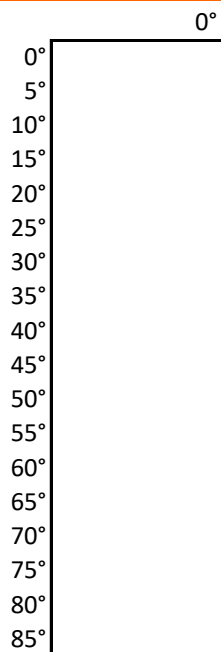
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	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	105	101	98		100	98	95		97	94	93		93	91	90
2	102	95	89	84	100	93	88	83		90	85	81		86	83	79		84	80	78
3	94	84	77	72	91	83	76	71		80	74	70		77	73	68		75	71	67
4	86	76	68	62	84	74	67	61		72	65	60		70	64	60		68	63	59
5	80	68	60	54	78	67	59	53		65	58	53		63	57	52		61	56	52
6	74	62	53	47	72	61	53	47		59	52	47		57	51	46		56	50	46
7	69	56	48	42	67	55	48	42		54	47	42		52	46	41		51	45	41
8	64	51	43	38	63	51	43	38		49	42	37		48	42	37		47	41	37
9	60	47	39	34	59	47	39	34		46	39	34		45	38	34		44	38	34
10	56	44	36	31	55	43	36	31		42	36	31		41	35	31		40	35	31

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.4	4.2
10°-20°	213.9	11.8
20°-30°	318.2	17.6
30°-40°	370.3	20.4
40°-50°	360.9	19.9
50°-60°	277.6	15.3
60°-70°	153.5	8.5
70°-80°	40.6	2.2
80°-90°	0.3	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°	607.5	33.5
0°-40°	977.8	54.0
0°-60°	1616.4	89.3
0°-90°	1810.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1810.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	799	
5°	794	75
15°	758	214
25°	691	318
35°	594	370
45°	468	361
55°	310	278
65°	154	153
75°	34	41
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	798.8
2.5°	798.8
5°	794.2
7.5°	787.3
10°	782.7
12.5°	768.9
15°	757.5
17.5°	746.0
20°	729.9
22.5°	713.9
25°	690.9
27.5°	667.9
30°	645.0
32.5°	619.7
35°	594.5
37.5°	562.4
40°	534.8
42.5°	505.0
45°	468.3
47.5°	433.8
50°	394.8
52.5°	353.5
55°	309.9
57.5°	268.6
60°	229.5
62.5°	190.5
65°	153.8
67.5°	119.4
70°	87.2
72.5°	59.7
75°	34.4
77.5°	16.1
80°	2.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)