

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: P207539

Luminaire Tested: **LD4B10D010 EU4B10208030 4LBMMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207539
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: LD4B10D010 EU4B10208030 4LBMMW1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
MEDIUM DISTRIBUTION WITH MATTE WHITE TRIM
WATTAGE D010TR-10.05W DE010-10.58W D5LT-10.2W DMX-10.6W DL2-11.8W
DL3-11.1W DLE-11.39W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 840.3 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 0.99 / 0.97
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

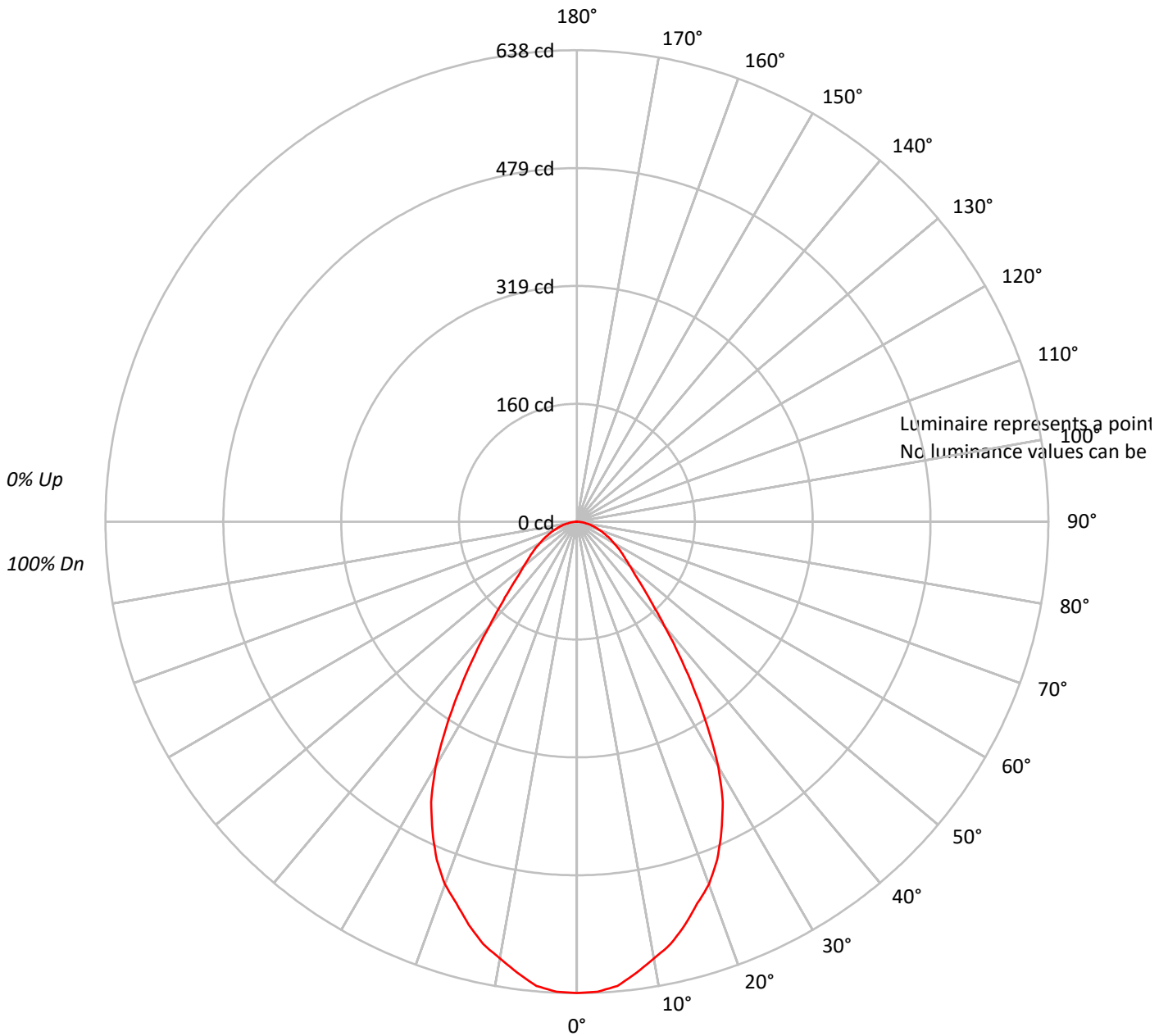
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





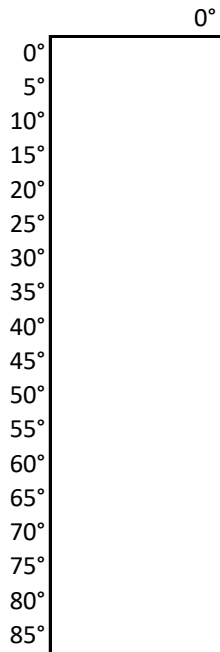
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
RC	80									50									30									10									0								
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0															
RCR																																													
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																											
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																											
2	104	98	92	88	102	96	91	87	93	89	85	89	86	83	87	84	81	80																											
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71																											
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																											
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																											
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53																											
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49																											
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45																											
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42																											
10	63	52	45	41	62	51	45	41	51	45	40	50	44	40	49	44	40	39																											

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.1	7.0
10°-20°	158.5	18.9
20°-30°	210.8	25.1
30°-40°	172.4	20.5
40°-50°	100.4	11.9
50°-60°	66.6	7.9
60°-70°	43.8	5.2
70°-80°	23.1	2.7
80°-90°	5.6	0.7
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°	428.4	51.0
0°-40°	600.8	71.5
0°-60°	767.8	91.4
0°-90°	840.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	840.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	638	
5°	631	59
15°	565	159
25°	463	211
35°	275	172
45°	127	100
55°	74	67
65°	44	44
75°	22	23
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	637.9
2.5°	636.7
5°	630.6
7.5°	616.0
10°	600.2
12.5°	585.6
15°	564.9
17.5°	541.7
20°	522.3
22.5°	495.5
25°	462.6
27.5°	427.3
30°	382.3
32.5°	328.7
35°	275.1
37.5°	226.4
40°	183.8
42.5°	151.0
45°	126.6
47.5°	107.1
50°	93.7
52.5°	82.8
55°	74.3
57.5°	65.7
60°	57.2
62.5°	51.1
65°	43.8
67.5°	37.7
70°	31.7
72.5°	26.8
75°	21.9
77.5°	17.0
80°	12.2
82.5°	8.5
85°	4.9
87.5°	1.2
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180°







(END OF REPORT)