

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: P206645

Luminaire Tested: **LD4B20D010 EU4B10209040 4LBWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206645
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 4LBWH1
Description: PORTFOLIO 4 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT
WIDE DISTRIBUTION WITH SEMI-SPECULAR CLEAR 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: 1468.6 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

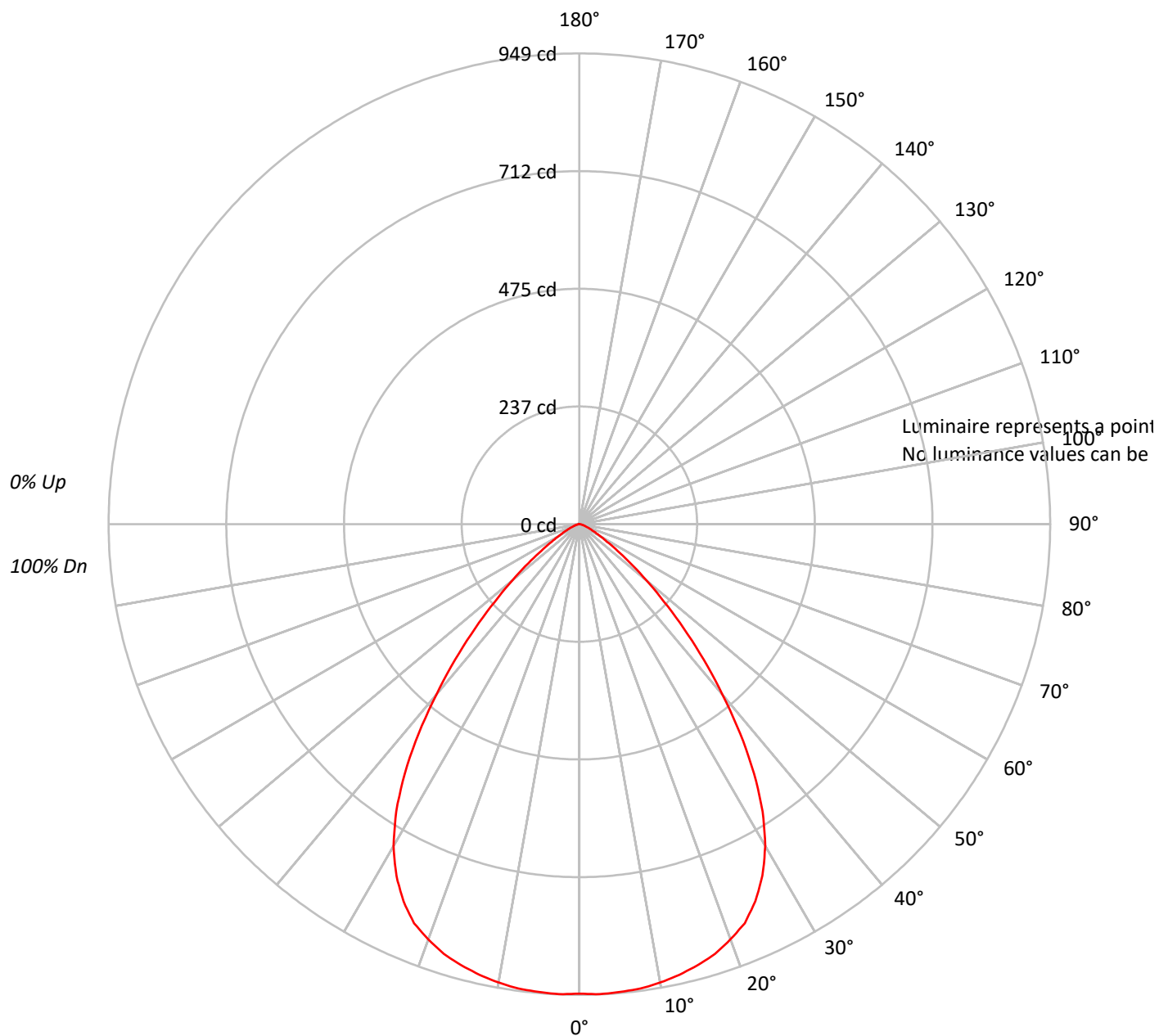
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	104	110	107	104	102		103	101	99		99	97	96		96	94	93
2	105	100	95	91	103	98	93	90		95	91	88		91	88	86		89	86	84
3	99	91	85	80	97	90	84	80		87	82	78		84	80	77		82	79	76
4	92	83	77	72	90	82	76	71		80	75	70		78	73	70		76	72	69
5	87	77	70	65	85	76	69	64		74	68	64		72	67	63		70	66	62
6	81	71	64	58	80	70	63	58		68	62	58		67	61	57		65	61	57
7	76	65	58	53	75	65	58	53		63	57	53		62	56	52		61	56	52
8	72	60	53	49	70	60	53	49		59	53	48		58	52	48		57	52	48
9	68	56	49	45	66	56	49	45		55	49	44		54	48	44		53	48	44
10	64	52	46	41	63	52	46	41		51	45	41		50	45	41		49	44	41

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.1	6.1
10°-20°	259.8	17.7
20°-30°	383.3	26.1
30°-40°	378.3	25.8
40°-50°	231.5	15.8
50°-60°	88.8	6.0
60°-70°	27.7	1.9
70°-80°	8.1	0.6
80°-90°	1.1	0.1
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°	733.2	49.9
0°-40°	1111.5	75.7
0°-60°	1431.7	97.5
0°-90°	1468.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1468.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	947	
5°	947	90
15°	921	260
25°	839	383
35°	614	378
45°	297	231
55°	94	89
65°	26	28
75°	8	8
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	946.6
2.5°	948.6
5°	946.6
7.5°	944.6
10°	938.6
12.5°	930.7
15°	920.7
17.5°	908.7
20°	890.8
22.5°	870.9
25°	839.0
27.5°	799.1
30°	749.3
32.5°	687.5
35°	613.8
37.5°	532.1
40°	448.4
42.5°	370.7
45°	296.9
47.5°	231.2
50°	175.4
52.5°	129.5
55°	93.7
57.5°	65.8
60°	47.8
62.5°	35.9
65°	25.9
67.5°	19.9
70°	13.9
72.5°	10.0
75°	8.0
77.5°	4.0
80°	4.0
82.5°	2.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)