

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: P207056

Luminaire Tested: **LD4B20D010 EU4B10209035 4LBWMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207056
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 EU4B10209035 4LBWMW1
Description: PORTFOLIO 4 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT
WIDE DISTRIBUTION WITH MATTE WHITE 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: 1532.3 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

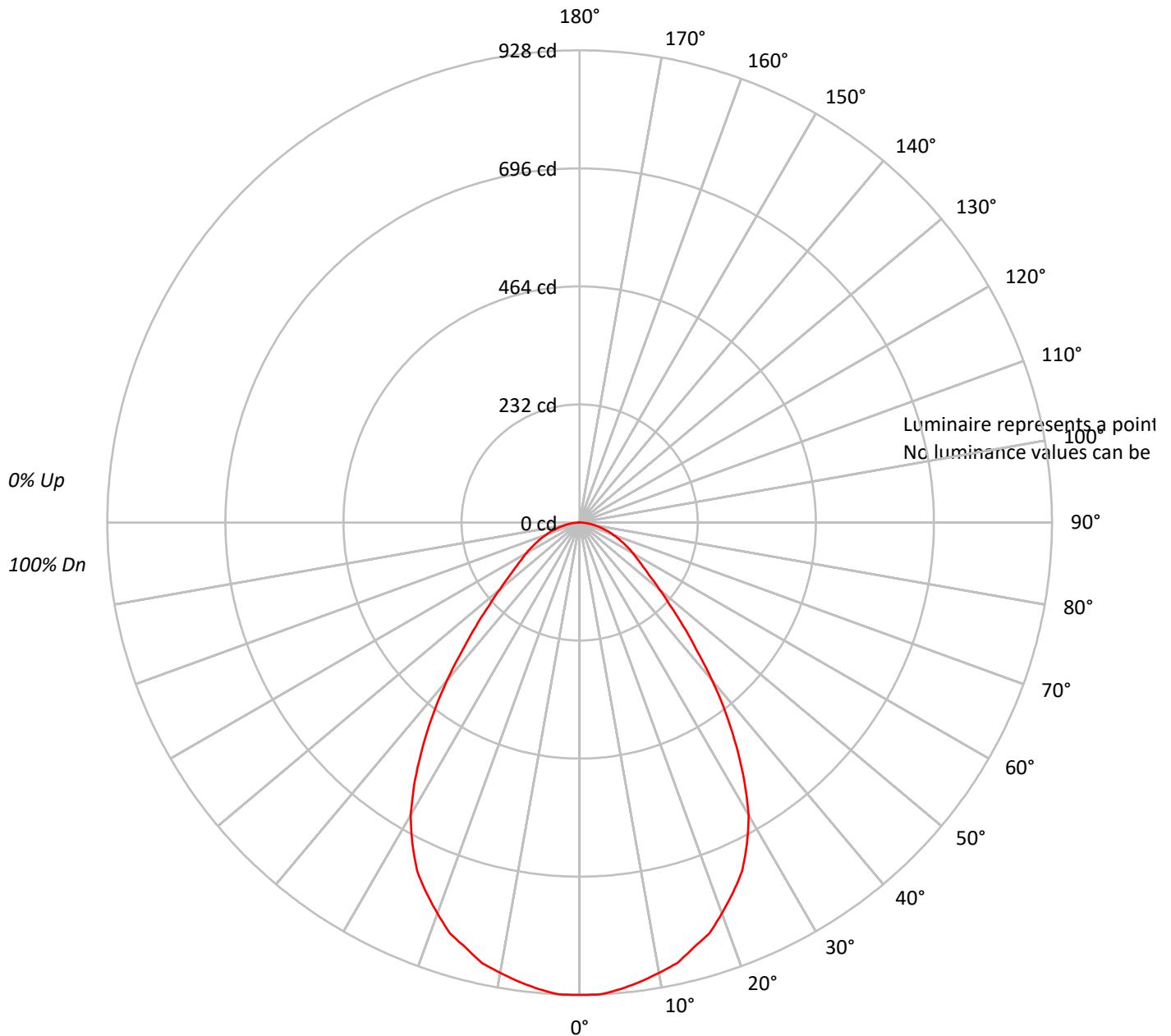
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	101	108	105	102	99		101	98	96		97	95	93		93	92	90
2	103	96	91	86	101	94	89	85		91	87	83		88	84	81		85	82	80
3	96	87	80	75	93	85	79	74		83	77	73		80	76	72		78	74	71
4	89	79	72	66	87	78	71	66		75	69	65		73	68	64		71	67	63
5	83	72	64	59	81	71	64	58		69	63	58		67	62	57		65	61	57
6	78	66	58	53	76	65	58	53		64	57	52		62	56	52		60	55	51
7	73	61	53	48	71	60	53	48		59	52	47		57	51	47		56	51	47
8	68	56	49	44	67	56	49	44		54	48	43		53	47	43		52	47	43
9	64	52	45	40	63	52	45	40		51	44	40		50	44	40		49	43	39
10	61	49	42	37	59	48	41	37		47	41	37		46	41	37		46	40	36

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	5.7
10°-20°	243.8	15.9
20°-30°	344.6	22.5
30°-40°	333.7	21.8
40°-50°	225.2	14.7
50°-60°	139.8	9.1
60°-70°	93.4	6.1
70°-80°	51.1	3.3
80°-90°	13.5	0.9
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°	675.5	44.1
0°-40°	1009.3	65.9
0°-60°	1374.3	89.7
0°-90°	1532.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1532.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	928	
5°	921	87
15°	865	244
25°	756	345
35°	537	334
45°	288	225
55°	153	140
65°	94	93
75°	48	51
85°	12	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	928.5
2.5°	928.5
5°	920.6
7.5°	910.6
10°	898.7
12.5°	886.8
15°	864.9
17.5°	847.0
20°	817.2
22.5°	787.4
25°	755.6
27.5°	711.8
30°	664.1
32.5°	602.5
35°	536.8
37.5°	471.2
40°	405.6
42.5°	340.0
45°	288.3
47.5°	240.6
50°	204.8
52.5°	175.0
55°	153.1
57.5°	135.2
60°	121.3
62.5°	107.4
65°	93.5
67.5°	81.5
70°	69.6
72.5°	59.6
75°	47.7
77.5°	37.8
80°	27.8
82.5°	19.9
85°	11.9
87.5°	4.0
90°	0.0



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— 0°-180°







(END OF REPORT)