

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: P207769

Luminaire Tested: **LD4B20D010 EU4B10208027 4LBNGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207769
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 EU4B10208027 4LBNGPH1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW DISTRIBUTION WITH GRAPHITE HAZE 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: 907.7 lumens
Efficiency: N/A
Efficacy: 43.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.88
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

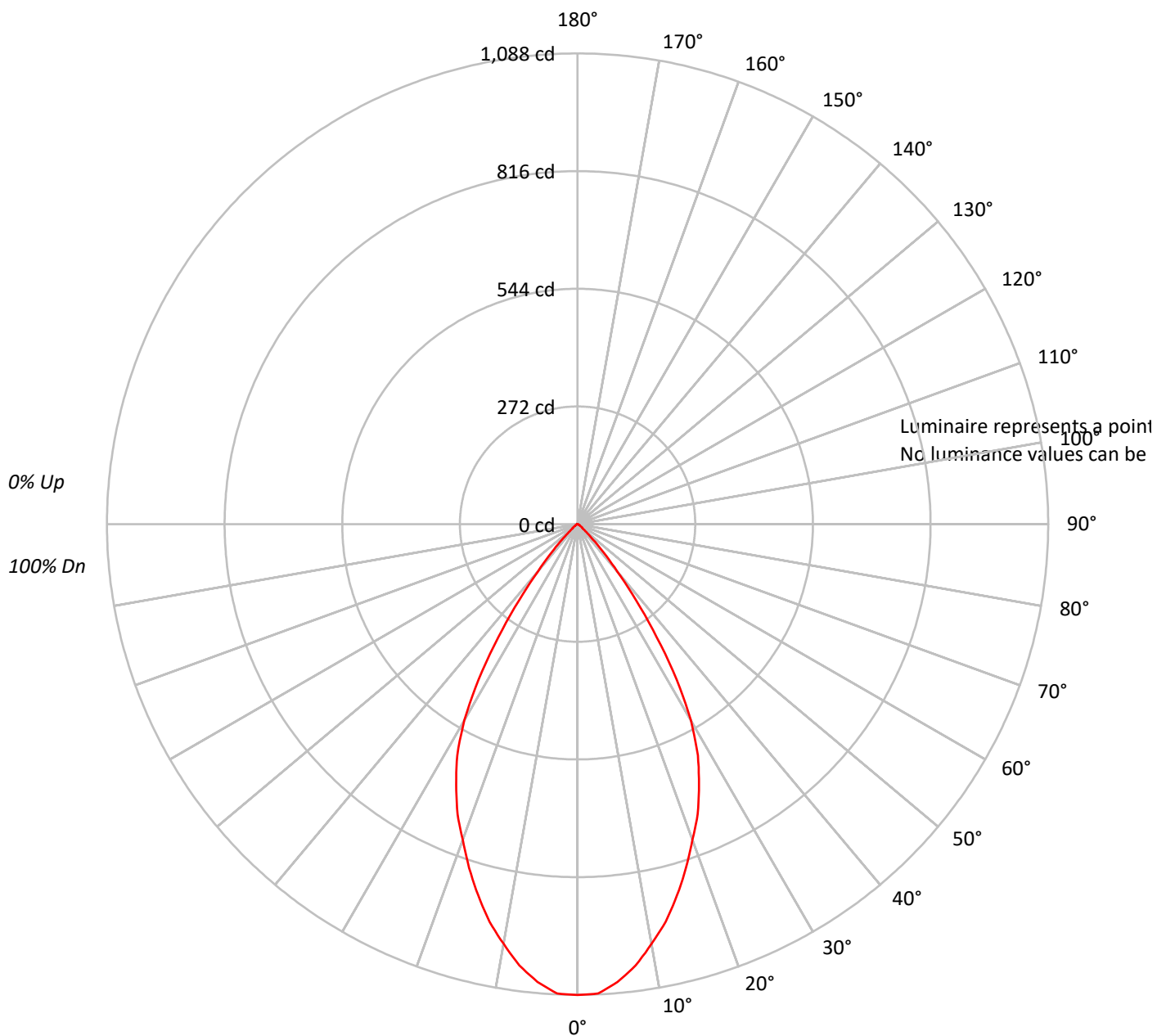
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	108	106	111	109	106	104		105	103	101		101	100	98		97	96	95
2	108	103	99	96	106	101	98	95		98	95	93		95	93	91		92	91	89
3	103	96	91	87	101	95	90	87		92	88	85		90	87	84		88	85	83
4	97	90	84	80	96	89	84	80		87	82	79		85	81	78		83	80	77
5	93	84	78	74	91	83	78	74		82	77	73		80	76	73		78	75	72
6	88	79	73	69	86	78	73	69		77	72	68		75	71	68		74	70	67
7	84	74	68	64	82	74	68	64		72	67	64		71	67	63		70	66	63
8	80	70	64	60	78	70	64	60		68	63	60		67	63	59		66	62	59
9	76	66	60	56	75	66	60	56		65	60	56		64	59	56		63	59	56
10	72	63	57	53	71	62	57	53		61	56	53		61	56	53		60	56	52

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.0	10.9
10°-20°	248.1	27.3
20°-30°	302.3	33.3
30°-40°	199.5	22.0
40°-50°	45.9	5.1
50°-60°	8.8	1.0
60°-70°	3.2	0.4
70°-80°	0.9	0.1
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°	649.4	71.5
0°-40°	848.8	93.5
0°-60°	903.5	99.5
0°-90°	907.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	907.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1088	
5°	1062	99
15°	888	248
25°	664	302
35°	319	199
45°	51	46
55°	9	9
65°	2	3
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1088.4
2.5°	1086.2
5°	1062.1
7.5°	1029.1
10°	985.1
12.5°	941.1
15°	888.4
17.5°	833.4
20°	776.2
22.5°	725.6
25°	664.1
27.5°	602.5
30°	523.3
32.5°	426.6
35°	318.8
37.5°	222.1
40°	142.9
42.5°	88.0
45°	50.6
47.5°	26.4
50°	15.4
52.5°	13.2
55°	8.8
57.5°	6.6
60°	6.6
62.5°	4.4
65°	2.2
67.5°	2.2
70°	2.2
72.5°	2.2
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)