

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: P207671

Luminaire Tested: **LD4B20D010 EU4B10209024 4LBNH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207671
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 EU4B10209024 4LBNH1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW 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: 914.5 lumens
Efficiency: N/A
Efficacy: 44.0 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

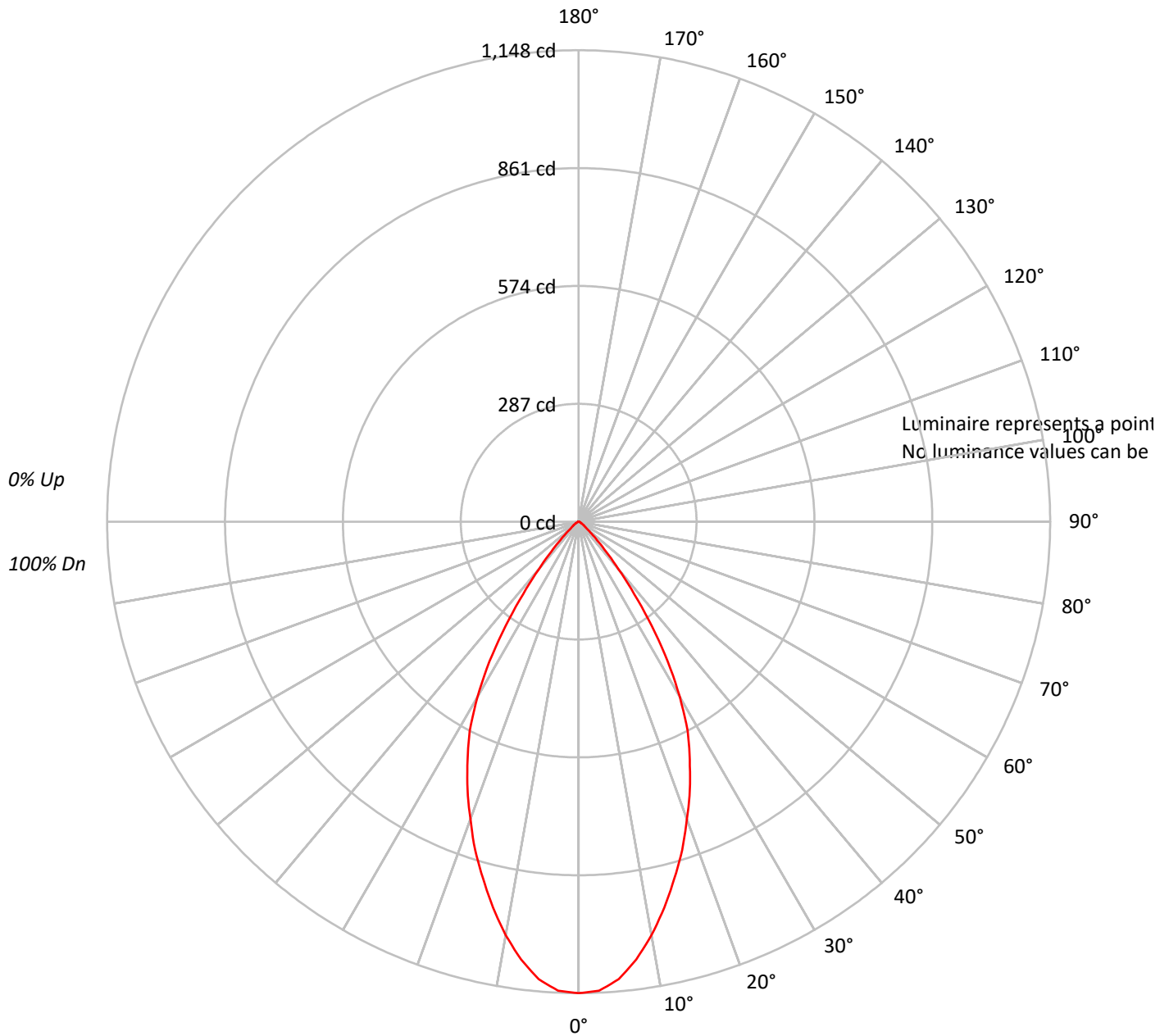
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	111	108	106	111	109	106	104		105	103	101		101	99	98		97	96	95
2	108	103	99	96	106	101	98	94		98	95	92		95	93	90		92	90	89
3	102	96	91	87	100	95	90	86		92	88	85		90	86	84		87	85	82
4	97	90	84	80	95	89	83	79		86	82	78		84	81	78		83	79	77
5	92	84	78	74	91	83	78	73		81	76	73		80	75	72		78	74	72
6	88	79	73	69	86	78	72	68		77	72	68		75	71	67		74	70	67
7	83	74	68	64	82	73	68	64		72	67	63		71	66	63		70	66	63
8	79	70	64	60	78	69	64	60		68	63	59		67	63	59		66	62	59
9	76	66	60	56	74	65	60	56		65	59	56		64	59	56		63	59	55
10	72	62	57	53	71	62	56	53		61	56	53		60	56	52		60	55	52

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	11.3
10°-20°	251.3	27.5
20°-30°	291.7	31.9
30°-40°	193.2	21.1
40°-50°	54.2	5.9
50°-60°	13.6	1.5
60°-70°	5.1	0.6
70°-80°	1.8	0.2
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°	646.6	70.7
0°-40°	839.8	91.8
0°-60°	907.6	99.2
0°-90°	914.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	914.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1148	
5°	1118	104
15°	900	251
25°	640	292
35°	310	193
45°	63	54
55°	15	14
65°	5	5
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1148.1
2.5°	1143.1
5°	1118.3
7.5°	1075.2
10°	1022.2
12.5°	962.5
15°	899.6
17.5°	838.3
20°	770.4
22.5°	707.4
25°	639.5
27.5°	574.9
30°	492.0
32.5°	404.2
35°	309.8
37.5°	222.0
40°	150.8
42.5°	97.7
45°	63.0
47.5°	38.1
50°	24.9
52.5°	18.2
55°	14.9
57.5°	11.6
60°	8.3
62.5°	6.6
65°	5.0
67.5°	3.3
70°	3.3
72.5°	1.7
75°	1.7
77.5°	1.7
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)