

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: P205904

Luminaire Tested: **LD4B15D010 EU4B10209027 4LBSGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P205904
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: LD4B15D010 EU4B10209027 4LBSGPH1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH GRAPHITE HAZE TRIM
WATTAGE D010TR-14.39W DE010-14.29W D5LT-14.34W DMX-14.46W DL2-15.8W
DL3-15.28W DLE-15.432W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1106.9 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.26
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

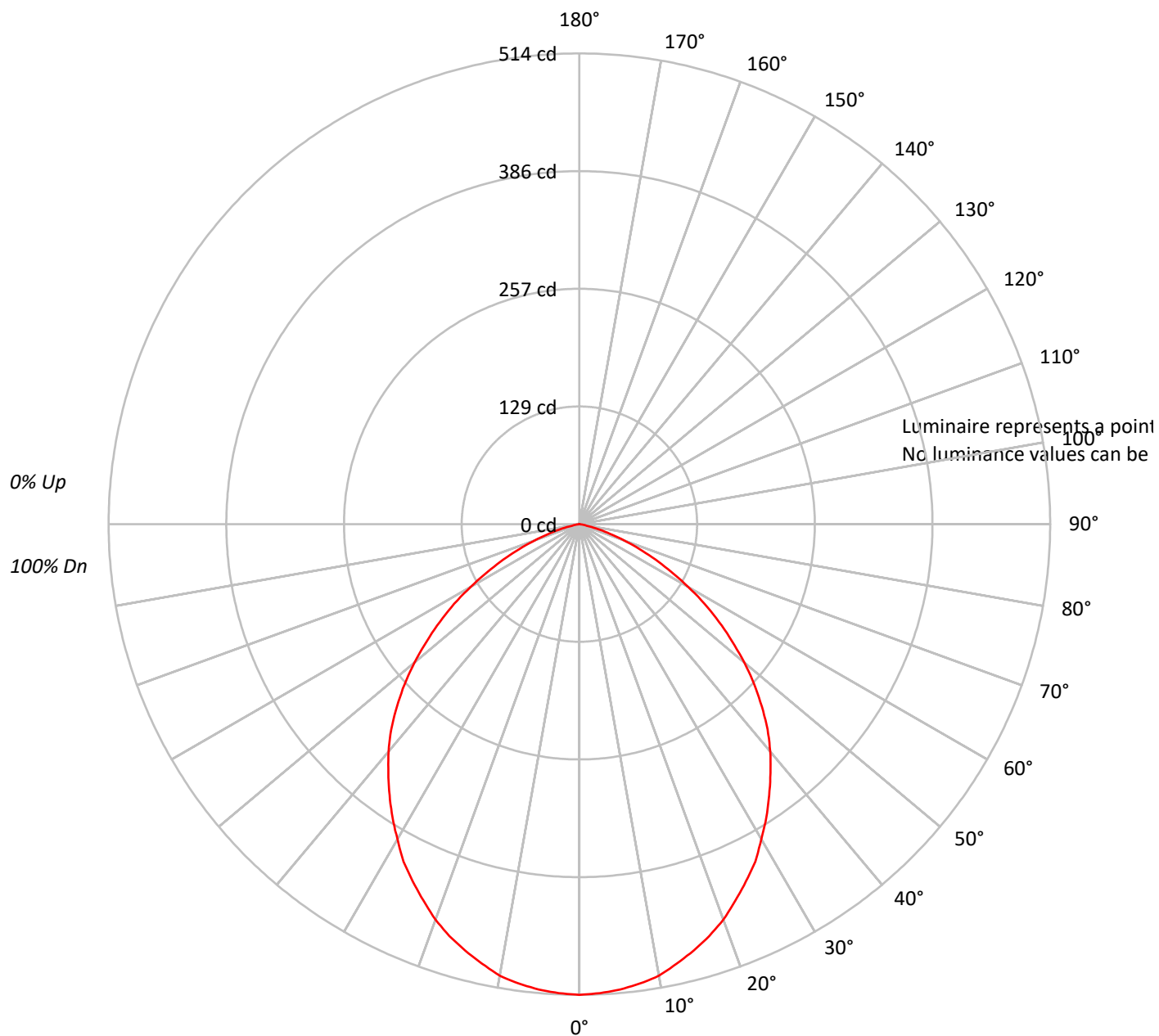
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	100		108	105	102	99		101	98	96		97	95	93		93	91	90
2	102	95	89	84		100	93	88	83		90	85	82		87	83	80		84	81	78
3	94	85	78	72		92	83	77	71		80	75	70		78	73	69		75	71	68
4	87	76	68	62		85	75	67	62		72	66	61		70	65	60		68	63	59
5	80	68	60	54		78	67	60	54		65	59	53		63	58	53		62	56	52
6	74	62	54	48		73	61	53	48		59	52	47		58	52	47		56	51	47
7	69	57	48	43		68	56	48	43		54	47	42		53	47	42		52	46	42
8	65	52	44	38		63	51	44	38		50	43	38		49	42	38		48	42	38
9	60	48	40	35		59	47	40	35		46	39	35		45	39	34		44	38	34
10	57	44	37	32		56	44	36	32		43	36	31		42	36	31		41	35	31

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	4.4
10°-20°	135.9	12.3
20°-30°	198.2	17.9
30°-40°	226.0	20.4
40°-50°	216.8	19.6
50°-60°	166.0	15.0
60°-70°	91.1	8.2
70°-80°	24.2	2.2
80°-90°	0.4	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°	382.4	34.6
0°-40°	608.4	55.0
0°-60°	991.2	89.5
0°-90°	1106.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1106.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	514	
5°	510	48
15°	482	136
25°	430	198
35°	361	226
45°	282	217
55°	186	166
65°	92	91
75°	21	24
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	514.1
2.5°	512.7
5°	510.1
7.5°	506.1
10°	500.8
12.5°	491.5
15°	482.2
17.5°	471.6
20°	459.6
22.5°	445.0
25°	430.4
27.5°	415.8
30°	397.2
32.5°	379.9
35°	361.3
37.5°	342.7
40°	324.1
42.5°	304.2
45°	281.6
47.5°	259.0
50°	235.1
52.5°	209.9
55°	186.0
57.5°	162.1
60°	136.8
62.5°	112.9
65°	91.7
67.5°	70.4
70°	51.8
72.5°	34.5
75°	21.3
77.5°	9.3
80°	2.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)