

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: P224442

Luminaire Tested: **LD2B05D010 EU2B05FL409035 2LBDL*WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14831)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05FL409035 2LBDL*WH
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH WHEAT HAZE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 617.8 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

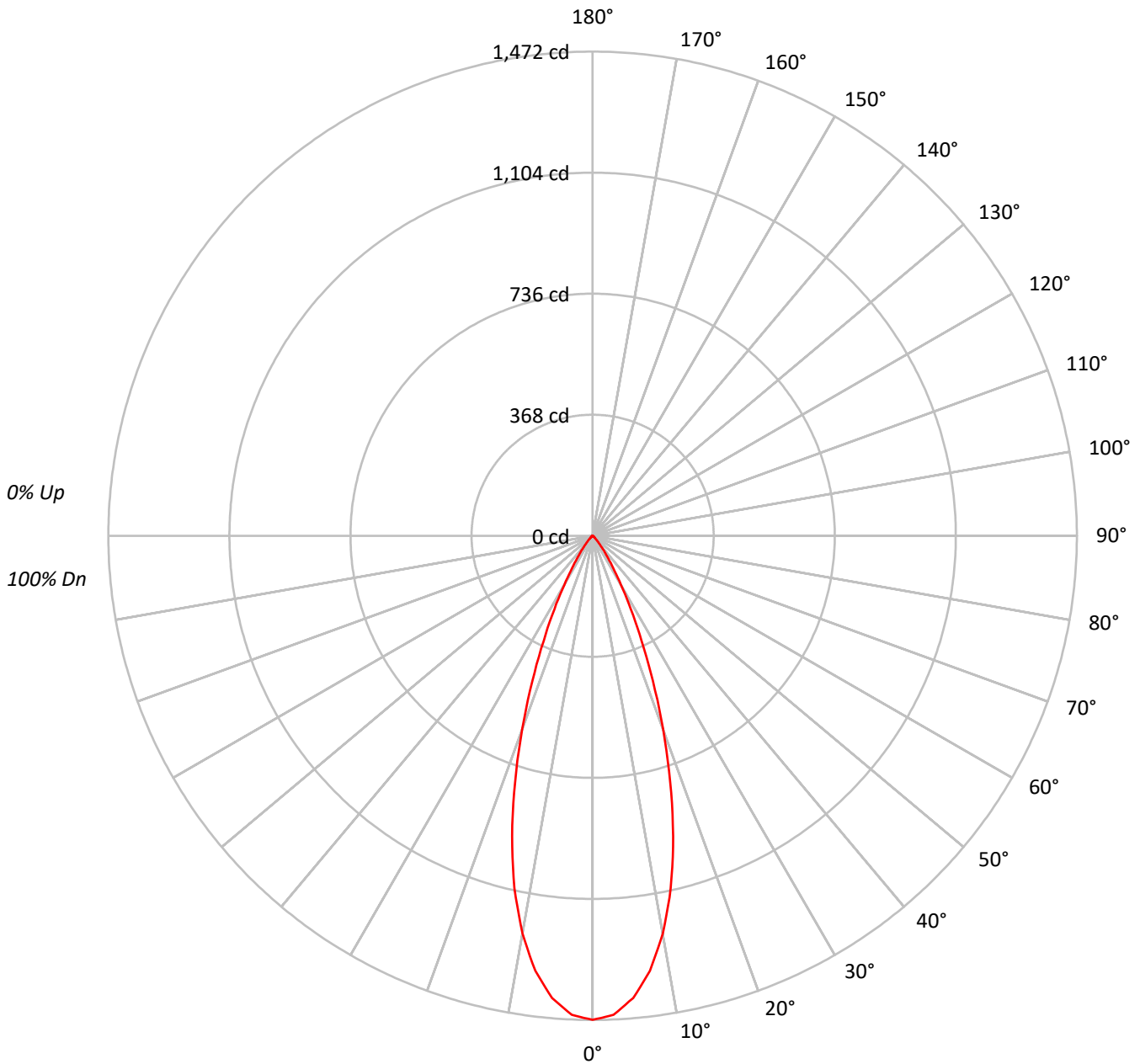
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20	
RC	80				70				50				30				10				0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95				95
2	110	106	102	100	108	104	101	98	101	98	96	98	96	94	95	94	92	91				91
3	106	100	96	93	104	99	95	92	96	93	91	94	91	89	92	90	88	87				87
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	88	86	84	82				82
5	98	91	86	82	96	90	85	82	88	84	81	87	83	81	85	82	80	79				79
6	94	87	82	78	93	86	81	78	85	80	77	83	80	77	82	79	76	75				75
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72				72
8	87	79	75	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69				69
9	84	76	71	68	83	76	71	68	75	71	68	74	70	68	73	70	67	66				66
10	81	73	69	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64				64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	570018
5°	548477
10°	482763
15°	379195
20°	257793
25°	150569
30°	76662
35°	36269
40°	15827
45°	6847
50°	3314
55°	2093
60°	1240
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	20.9
10°-20°	257.1	41.6
20°-30°	165.1	26.7
30°-40°	52.4	8.5
40°-50°	11.2	1.8
50°-60°	2.9	0.5
60°-70°	0.4	0.1
70°-80°	0.0	0.0
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°	551.0	89.2
0°-40°	603.4	97.7
0°-60°	617.4	99.9
0°-90°	617.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	617.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1472	
5°	1411	129
15°	946	257
25°	352	165
35°	77	52
45°	12	11
55°	3	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1471.6
2.5°	1457.6
5°	1410.6
7.5°	1333.9
10°	1227.4
12.5°	1097.5
15°	945.6
17.5°	783.6
20°	625.4
22.5°	477.5
25°	352.3
27.5°	251.3
30°	171.4
32.5°	115.1
35°	76.7
37.5°	50.9
40°	31.3
42.5°	19.6
45°	12.5
47.5°	8.6
50°	5.5
52.5°	3.9
55°	3.1
57.5°	2.3
60°	1.6
62.5°	0.8
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
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)