

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: P225063

Luminaire Tested: **LD2B05D010 EU2B05FL409040 2LBD*WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14829)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05FL409040 2LBD*WH
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
SPUN ROUND TRIM WITH WHEAT HAZE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 667.0 lumens
Efficiency: N/A
Efficacy: 91.4 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

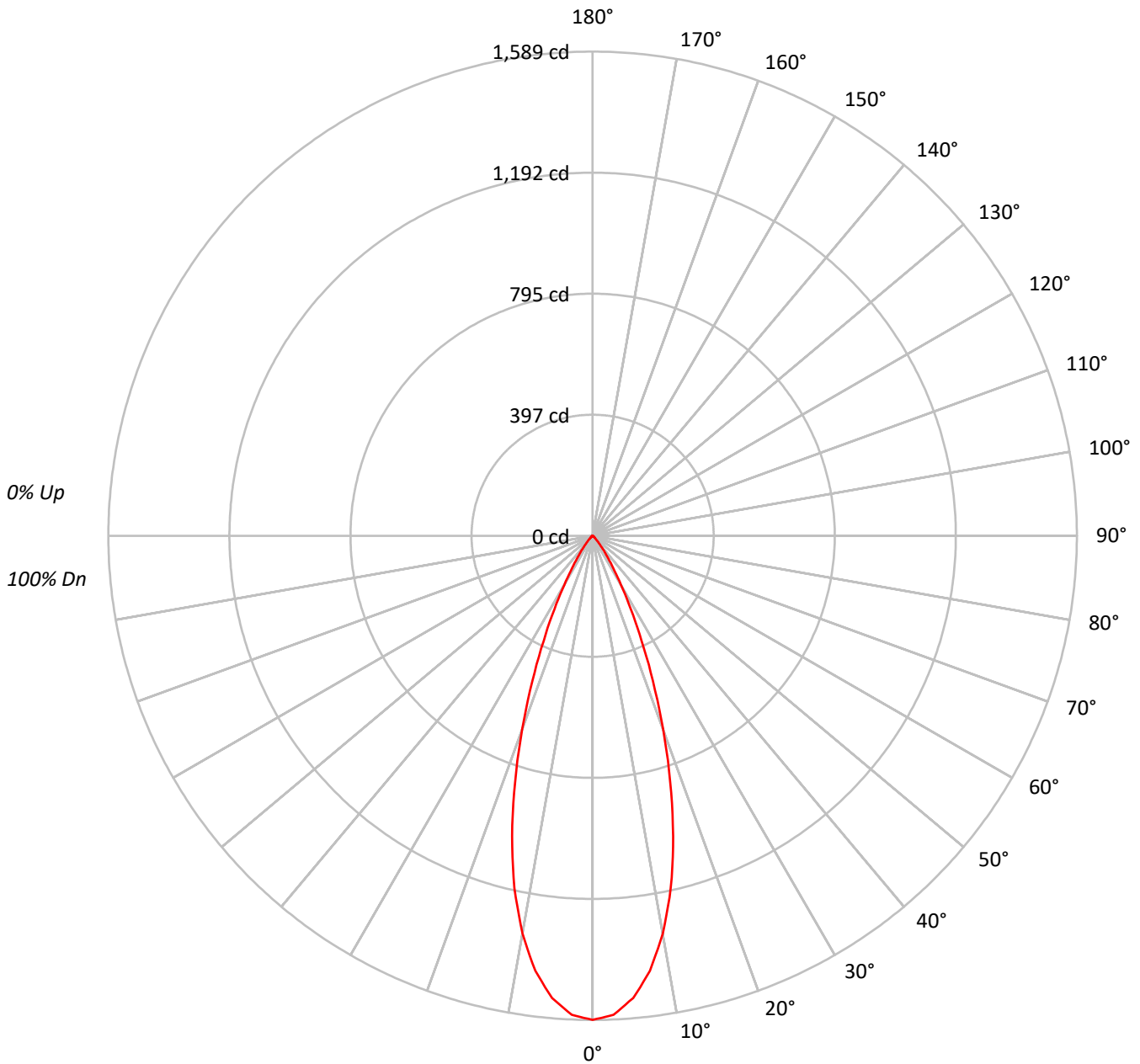
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	615415
5°	592142
10°	521190
15°	409391
20°	278321
25°	162536
30°	82789
35°	39153
40°	17091
45°	7395
50°	3555
55°	2296
60°	1317
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	20.9
10°-20°	277.6	41.6
20°-30°	178.2	26.7
30°-40°	56.5	8.5
40°-50°	12.1	1.8
50°-60°	3.1	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°	594.9	89.2
0°-40°	651.4	97.7
0°-60°	666.6	99.9
0°-90°	667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	667.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1589	
5°	1523	139
15°	1021	278
25°	380	178
35°	83	57
45°	14	12
55°	3	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1588.8
2.5°	1573.6
5°	1522.9
7.5°	1440.1
10°	1325.1
12.5°	1184.8
15°	1020.9
17.5°	846.0
20°	675.2
22.5°	515.5
25°	380.3
27.5°	271.3
30°	185.1
32.5°	124.2
35°	82.8
37.5°	54.9
40°	33.8
42.5°	21.1
45°	13.5
47.5°	9.3
50°	5.9
52.5°	4.2
55°	3.4
57.5°	2.5
60°	1.7
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)