

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: P224446

Luminaire Tested: **LD2B05D010 EU2B05FL409730 2LBDL*WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224446
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 EU2B05FL409730 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: 545.4 lumens
Efficiency: N/A
Efficacy: 74.7 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

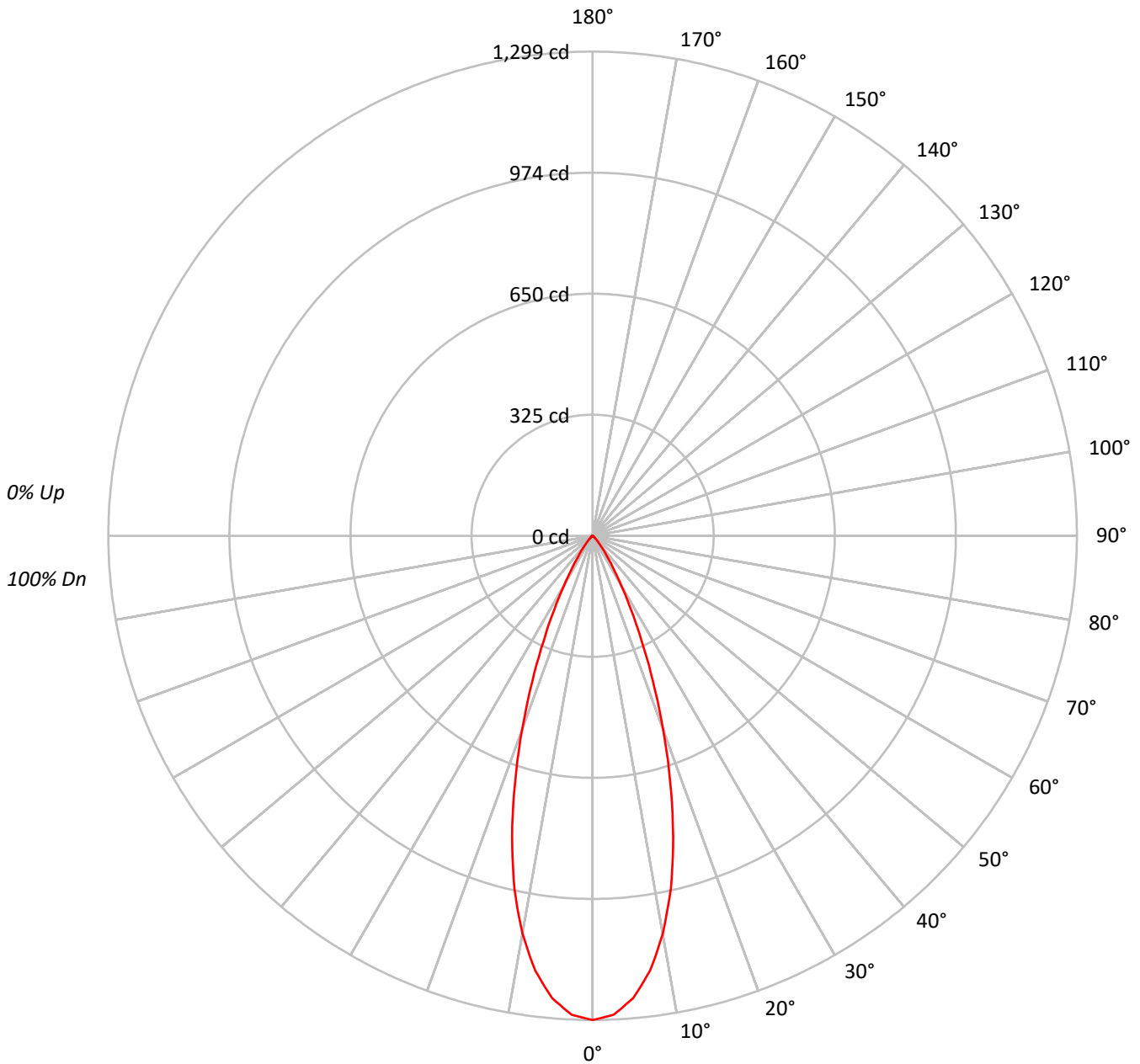
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
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	90	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°	503201
5°	484166
10°	426164
15°	334723
20°	227578
25°	132875
30°	67672
35°	32013
40°	13956
45°	6080
50°	2892
55°	1891
60°	1085
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	20.9
10°-20°	227.0	41.6
20°-30°	145.7	26.7
30°-40°	46.2	8.5
40°-50°	9.9	1.8
50°-60°	2.6	0.5
60°-70°	0.3	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°	486.4	89.2
0°-40°	532.6	97.7
0°-60°	545.0	99.9
0°-90°	545.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	545.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1299	
5°	1245	114
15°	835	227
25°	311	146
35°	68	46
45°	11	10
55°	3	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1299.1
2.5°	1286.6
5°	1245.2
7.5°	1177.5
10°	1083.5
12.5°	968.8
15°	834.7
17.5°	691.7
20°	552.1
22.5°	421.5
25°	310.9
27.5°	221.8
30°	151.3
32.5°	101.6
35°	67.7
37.5°	44.9
40°	27.6
42.5°	17.3
45°	11.1
47.5°	7.6
50°	4.8
52.5°	3.5
55°	2.8
57.5°	2.1
60°	1.4
62.5°	0.7
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)