

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: P#

Luminaire Tested: **LD2B05D010 EU2B05WFL559024 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14813)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05WFL559024 2LBDSQC*MB
Description: 500 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 450.0 lumens
Efficiency: N/A
Efficacy: 61.6 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.77 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

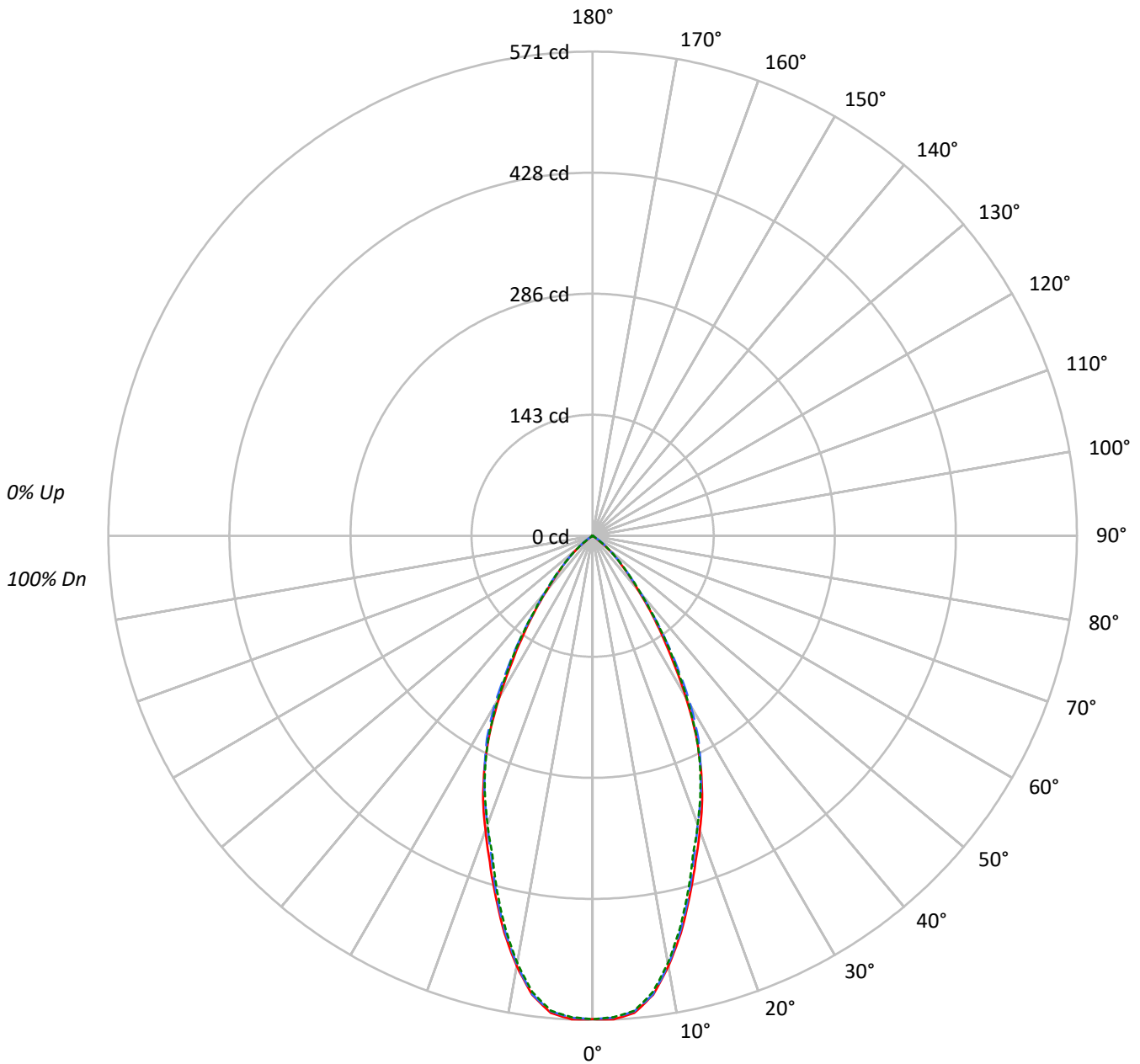
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	89	86	84	87	85	82	81			
4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	79	77	75			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70			
6	87	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65			
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	65	62	61			
8	79	70	63	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57			
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54			
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	220826	220826	220826
5°	219648	218909	218637
10°	202718	201971	201184
15°	176886	175602	174279
20°	152310	149342	149342
25°	128943	128644	128088
30°	98220	103453	99965
35°	66863	70882	70267
40°	42171	44497	44143
45°	26075	26403	26787
50°	13378	14945	14523
55°	1756	5267	2229
60°	542	542	542
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.2	11.6
10°-20°	121.9	27.1
20°-30°	136.8	30.4
30°-40°	92.9	20.6
40°-50°	38.8	8.6
50°-60°	7.3	1.6
60°-70°	0.1	0.0
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°	310.9	69.1
0°-40°	403.8	89.7
0°-60°	449.9	100.0
0°-90°	450.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	450.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	570	570	570	570	570	
5°	565	564	563	562	562	52
15°	441	440	438	434	435	123
25°	302	304	301	300	300	136
35°	141	146	150	147	149	90
45°	48	47	48	49	49	38
55°	3	6	8	6	3	5
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	570.1	570.1	570.1	570.1	570.1
2.5°	570.8	569.5	568.8	568.2	568.2
5°	564.9	564.3	563.0	561.7	562.3
7.5°	546.0	545.4	545.4	542.8	542.8
10°	515.4	515.4	513.5	513.5	511.5
12.5°	480.2	477.6	477.6	475.7	474.4
15°	441.1	439.8	437.9	434.0	434.6
17.5°	403.3	400.7	396.8	394.9	393.6
20°	369.5	368.8	362.3	361.0	362.3
22.5°	337.5	338.2	333.0	331.7	331.7
25°	301.7	304.3	301.0	300.4	299.7
27.5°	263.2	267.8	269.8	265.2	264.5
30°	219.6	227.4	231.3	226.8	223.5
32.5°	177.2	185.1	189.0	185.7	183.8
35°	141.4	146.0	149.9	146.6	148.6
37.5°	110.8	113.4	114.7	114.7	114.7
40°	83.4	86.0	88.0	88.6	87.3
42.5°	63.2	64.5	65.8	66.5	65.8
45°	47.6	46.9	48.2	48.9	48.9
47.5°	34.5	34.5	35.2	35.8	35.8
50°	22.2	23.5	24.8	24.1	24.1
52.5°	9.8	13.7	16.3	13.7	11.1
55°	2.6	5.9	7.8	5.9	3.3
57.5°	0.7	2.0	2.6	2.0	1.3
60°	0.7	0.7	0.7	0.7	0.7
62.5°	0.7	0.0	0.0	0.0	0.7
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)