

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: P283807

Luminaire Tested: **LDA2B058030D010 EU2B05WFL558030 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B058030D010 EU2B05WFL558030 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 672.9 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

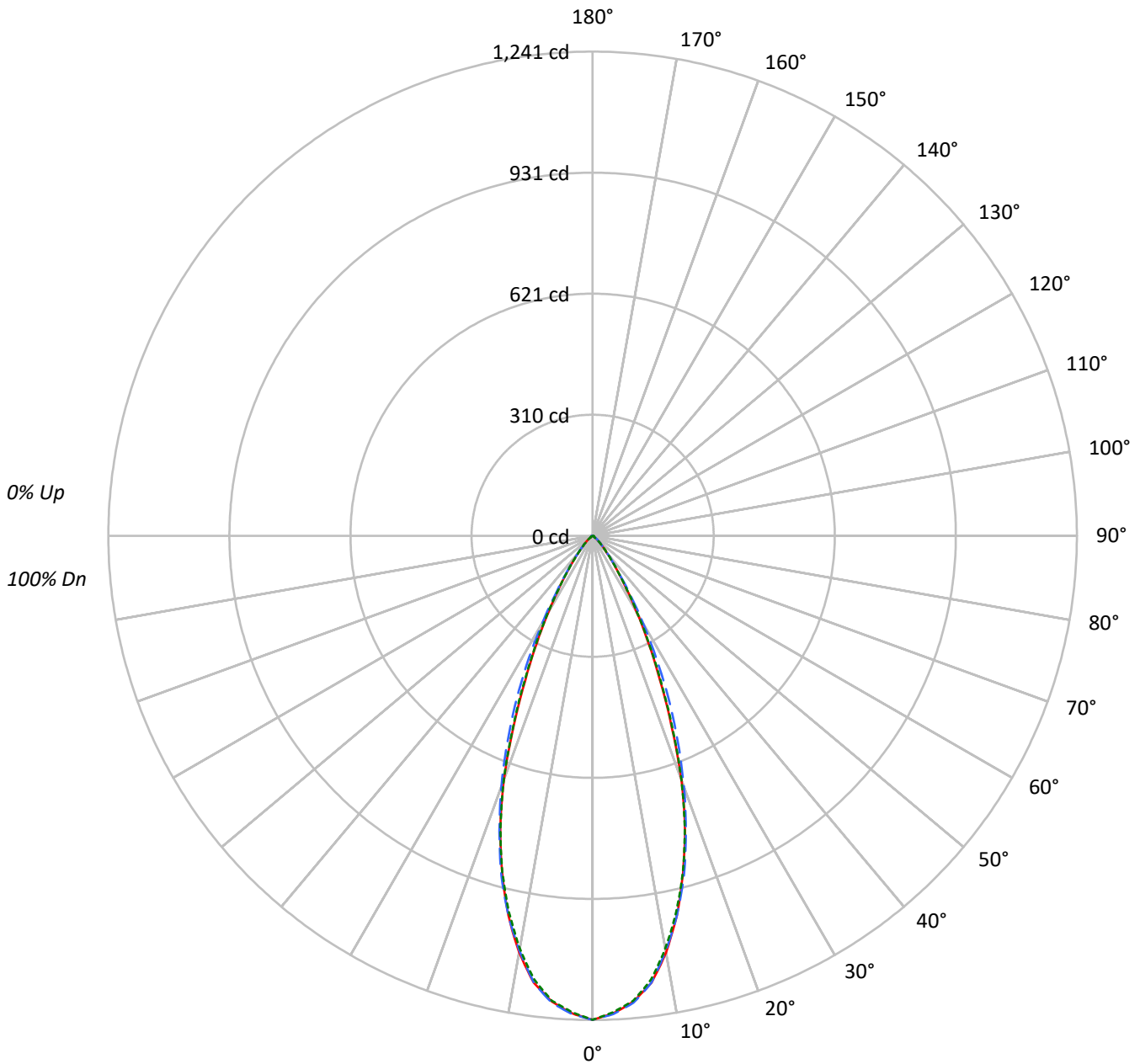
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89																			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84																			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79																			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75																			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71																			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67																			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64																			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61																			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	612065	612065	612065
5°	593652	595088	592414
10°	543405	541251	537995
15°	457084	461324	456318
20°	349561	358802	348984
25°	221992	250244	226292
30°	129091	145725	131369
35°	68239	72575	68480
40°	36002	37676	36002
45°	20164	20932	20373
50°	9441	11897	9441
55°	3441	6537	3699
60°	3947	3947	3947
65°	4203	4670	4203
70°	5193	4616	5193
75°	4766	4766	4766
80°	5114	3978	5114
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.7	16.5
10°-20°	246.6	36.6
20°-30°	199.1	29.6
30°-40°	78.7	11.7
40°-50°	24.2	3.6
50°-60°	6.2	0.9
60°-70°	3.8	0.6
70°-80°	2.8	0.4
80°-90°	0.8	0.1
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°	556.4	82.7
0°-40°	635.1	94.4
0°-60°	665.5	98.9
0°-90°	672.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	672.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1241	1241	1241	1241	1241	
5°	1199	1201	1202	1199	1196	111
15°	895	897	903	900	893	246
25°	408	427	460	435	416	190
35°	113	117	120	117	114	76
45°	29	29	30	30	29	24
55°	4	5	8	5	4	5
65°	4	4	4	4	4	4
75°	2	2	2	2	2	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1240.6	1240.6	1240.6	1240.6	1240.6
2.5°	1225.1	1225.8	1226.9	1225.4	1221.8
5°	1198.7	1200.9	1201.6	1199.1	1196.2
7.5°	1155.4	1152.9	1155.1	1150.7	1147.1
10°	1084.7	1081.4	1080.4	1073.9	1073.9
12.5°	997.4	996.3	997.0	993.8	988.7
15°	894.9	897.4	903.2	899.6	893.4
17.5°	786.3	789.9	794.9	793.9	785.6
20°	665.8	676.2	683.4	676.6	664.7
22.5°	528.6	551.0	569.4	555.0	535.5
25°	407.8	427.2	459.7	435.2	415.7
27.5°	309.2	323.3	352.9	328.7	315.4
30°	226.6	235.3	255.8	240.0	230.6
32.5°	162.0	168.2	176.8	167.4	162.7
35°	113.3	116.6	120.5	116.9	113.7
37.5°	79.7	80.8	83.7	80.8	79.4
40°	55.9	56.3	58.5	56.7	55.9
42.5°	40.4	40.4	41.5	40.8	40.4
45°	28.9	29.2	30.0	29.6	29.2
47.5°	20.6	21.3	21.3	21.7	20.2
50°	12.3	15.2	15.5	15.2	12.3
52.5°	6.5	9.0	11.2	9.0	6.5
55°	4.0	5.4	7.6	5.4	4.3
57.5°	4.0	4.0	5.1	4.3	4.0
60°	4.0	4.0	4.0	4.0	4.0
62.5°	4.0	4.0	4.0	4.0	4.0
65°	3.6	4.0	4.0	4.0	3.6
67.5°	3.6	3.6	3.6	3.6	3.6
70°	3.6	3.6	3.2	3.6	3.6
72.5°	3.2	3.2	2.9	3.2	3.2
75°	2.5	2.5	2.5	2.5	2.5
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.8	1.8	1.4	1.8	1.8
82.5°	1.1	1.1	1.1	1.1	1.1
85°	0.7	0.7	0.7	0.7	0.7
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)