

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: P283816

Luminaire Tested: **LDA2B058040D010 EU2B05WFL558040 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283816
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: LDA2B058040D010 EU2B05WFL558040 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND 2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 764.4 lumens
Efficiency: N/A
Efficacy: 109.2 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

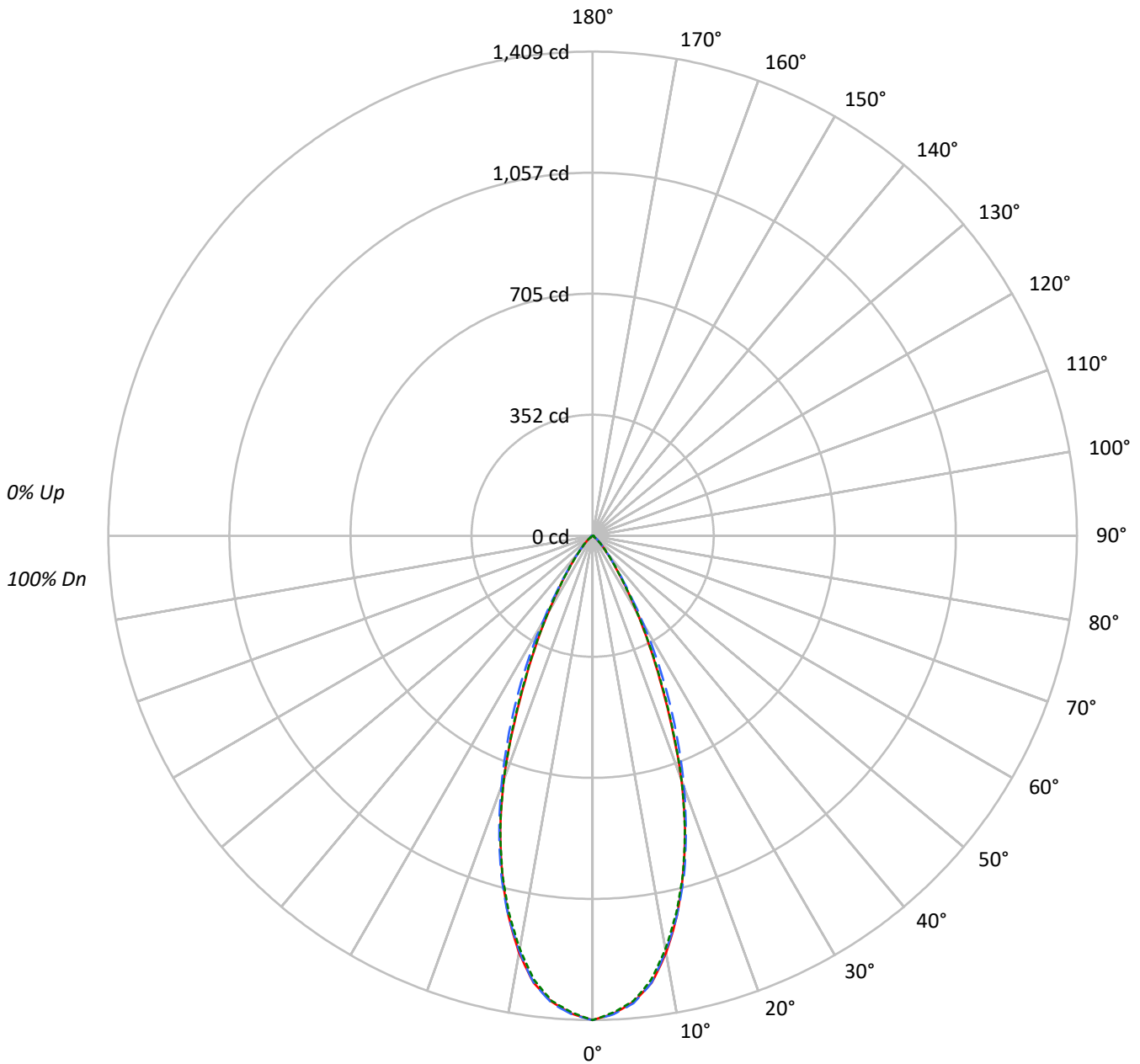
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	695344	695344	695344
5°	674476	676110	673040
10°	617349	614894	611187
15°	519295	524097	518478
20°	397129	407682	396446
25°	252204	284322	257103
30°	146694	165607	149258
35°	77514	82453	77755
40°	40896	42764	40896
45°	22885	23722	23164
50°	10669	13509	10669
55°	3871	7397	4215
60°	4440	4440	4440
65°	4786	5253	4786
70°	5914	5337	5914
75°	5528	5528	5528
80°	5682	4546	5682
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.8	16.5
10°-20°	280.1	36.6
20°-30°	226.2	29.6
30°-40°	89.4	11.7
40°-50°	27.4	3.6
50°-60°	7.1	0.9
60°-70°	4.3	0.6
70°-80°	3.2	0.4
80°-90°	0.9	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°	632.2	82.7
0°-40°	721.6	94.4
0°-60°	756.1	98.9
0°-90°	764.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	764.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1409	1409	1409	1409	1409	
5°	1362	1364	1365	1362	1359	126
15°	1017	1020	1026	1022	1015	279
25°	463	485	522	494	472	216
35°	129	132	137	133	129	86
45°	33	33	34	34	33	27
55°	4	6	9	6	5	6
65°	4	4	4	4	4	4
75°	3	3	3	3	3	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°	1409.4	1409.4	1409.4	1409.4	1409.4
2.5°	1391.8	1392.6	1393.9	1392.2	1388.1
5°	1361.9	1364.3	1365.2	1362.3	1359.0
7.5°	1312.7	1309.8	1312.3	1307.4	1303.3
10°	1232.3	1228.6	1227.4	1220.0	1220.0
12.5°	1133.1	1131.9	1132.7	1129.0	1123.3
15°	1016.7	1019.6	1026.1	1022.0	1015.1
17.5°	893.3	897.4	903.1	901.9	892.5
20°	756.4	768.3	776.5	768.7	755.1
22.5°	600.6	626.0	646.9	630.5	608.4
25°	463.3	485.4	522.3	494.4	472.3
27.5°	351.3	367.3	400.9	373.5	358.3
30°	257.5	267.3	290.7	272.6	262.0
32.5°	184.1	191.0	200.9	190.2	184.9
35°	128.7	132.4	136.9	132.8	129.1
37.5°	90.6	91.8	95.1	91.8	90.2
40°	63.5	64.0	66.4	64.4	63.5
42.5°	45.9	45.9	47.1	46.3	45.9
45°	32.8	33.2	34.0	33.6	33.2
47.5°	23.4	24.2	24.2	24.6	23.0
50°	13.9	17.2	17.6	17.2	13.9
52.5°	7.4	10.2	12.7	10.2	7.4
55°	4.5	6.1	8.6	6.1	4.9
57.5°	4.5	4.5	5.7	4.9	4.5
60°	4.5	4.5	4.5	4.5	4.5
62.5°	4.5	4.5	4.5	4.5	4.5
65°	4.1	4.5	4.5	4.5	4.1
67.5°	4.1	4.1	4.1	4.1	4.1
70°	4.1	4.1	3.7	4.1	4.1
72.5°	3.7	3.7	3.3	3.7	3.7
75°	2.9	2.9	2.9	2.9	2.9
77.5°	2.5	2.5	2.5	2.5	2.5
80°	2.0	2.0	1.6	2.0	2.0
82.5°	1.2	1.2	1.2	1.2	1.2
85°	0.8	0.8	0.8	0.8	0.8
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)