

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: P283813

Luminaire Tested: **LDA2B058035D010 EU2B05WFL558035 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283813
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: LDA2B058035D010 EU2B05WFL558035 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: 680.3 lumens
Efficiency: N/A
Efficacy: 97.2 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

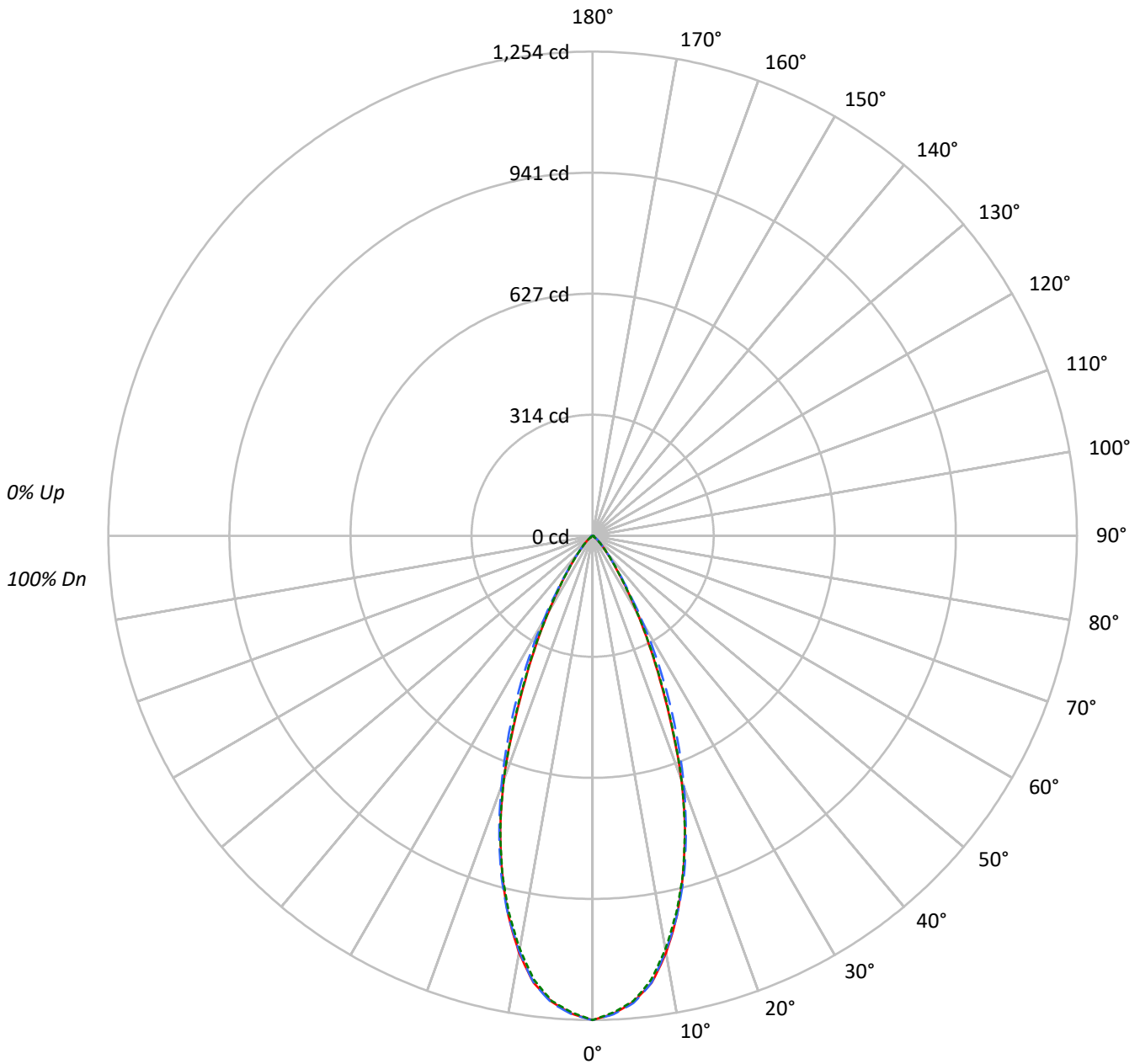
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	618824	618824	618824
5°	600239	601675	599000
10°	549417	547263	543956
15°	462141	466431	461426
20°	353394	362792	352817
25°	224441	253021	228796
30°	130515	147378	132794
35°	69022	73418	69202
40°	36453	38063	36453
45°	20373	21141	20652
50°	9517	12050	9517
55°	3441	6623	3785
60°	3947	3947	3947
65°	4203	4670	4203
70°	5193	4760	5193
75°	4956	4956	4956
80°	5114	4262	5114
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.0	16.5
10°-20°	249.3	36.6
20°-30°	201.3	29.6
30°-40°	79.6	11.7
40°-50°	24.4	3.6
50°-60°	6.3	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°	562.6	82.7
0°-40°	642.2	94.4
0°-60°	672.9	98.9
0°-90°	680.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	680.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1254	1254	1254	1254	1254	
5°	1212	1214	1215	1212	1210	112
15°	905	907	913	910	903	249
25°	412	432	465	440	420	192
35°	115	118	122	118	115	77
45°	29	30	30	30	30	24
55°	4	6	8	6	4	5
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°	1254.3	1254.3	1254.3	1254.3	1254.3
2.5°	1238.7	1239.4	1240.5	1239.0	1235.4
5°	1212.0	1214.2	1214.9	1212.4	1209.5
7.5°	1168.2	1165.7	1167.9	1163.5	1159.9
10°	1096.7	1093.4	1092.4	1085.8	1085.8
12.5°	1008.4	1007.3	1008.1	1004.8	999.7
15°	904.8	907.4	913.2	909.6	903.4
17.5°	795.0	798.7	803.8	802.7	794.3
20°	673.1	683.7	691.0	684.1	672.0
22.5°	534.5	557.1	575.7	561.1	541.4
25°	412.3	432.0	464.8	440.0	420.3
27.5°	312.7	326.9	356.8	332.4	318.9
30°	229.1	237.9	258.7	242.6	233.1
32.5°	163.8	170.0	178.8	169.3	164.5
35°	114.6	117.8	121.9	118.2	114.9
37.5°	80.6	81.7	84.6	81.7	80.3
40°	56.6	56.9	59.1	57.3	56.6
42.5°	40.9	40.9	42.0	41.2	40.9
45°	29.2	29.6	30.3	29.9	29.6
47.5°	20.8	21.5	21.5	21.9	20.4
50°	12.4	15.3	15.7	15.3	12.4
52.5°	6.6	9.1	11.3	9.1	6.6
55°	4.0	5.5	7.7	5.5	4.4
57.5°	4.0	4.0	5.1	4.4	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	3.3	3.6	3.6
72.5°	3.3	3.3	2.9	3.3	3.3
75°	2.6	2.6	2.6	2.6	2.6
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.8	1.8	1.5	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)