

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: P283494

Luminaire Tested: **LDA2B059024D010 EU2B05FL409024 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283494
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B059024D010 EU2B05FL409024 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 457.2 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

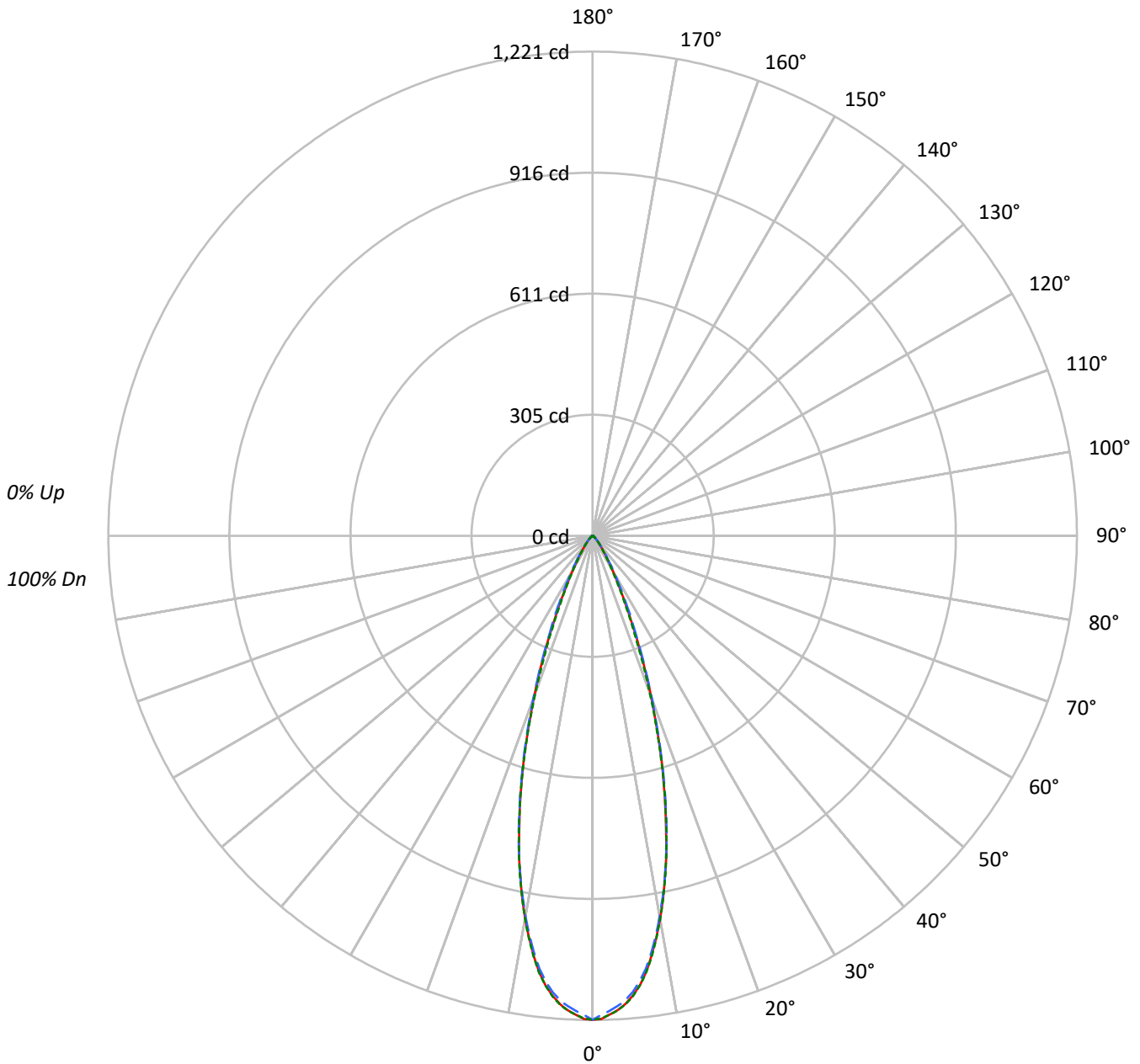
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	602296	602296	602296
5°	576417	572059	577309
10°	491053	487997	491604
15°	361929	364278	363103
20°	225971	230118	220983
25°	116712	125258	110833
30°	55943	64147	53323
35°	28910	31981	27043
40°	16165	17003	15393
45°	9838	9838	9489
50°	5142	6294	5142
55°	2666	4215	2838
60°	3059	3059	3059
65°	3269	3269	3269
70°	4039	3750	4039
75°	4003	4003	4003
80°	3694	3694	3694
85°	2830	2830	2830



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	23.0
10°-20°	192.9	42.2
20°-30°	104.6	22.9
30°-40°	33.6	7.3
40°-50°	11.5	2.5
50°-60°	4.0	0.9
60°-70°	2.9	0.6
70°-80°	2.1	0.5
80°-90°	0.6	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°	402.5	88.0
0°-40°	436.0	95.4
0°-60°	451.5	98.8
0°-90°	457.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	457.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1221	1221	1221	1221	1221	
5°	1164	1157	1155	1167	1166	105
15°	709	714	713	717	711	192
25°	214	224	230	214	204	103
35°	48	50	53	48	45	32
45°	14	14	14	14	14	11
55°	3	4	5	4	3	3
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1220.8	1220.8	1220.8	1220.8	1220.8
1°	1218.8	1210.0	1208.8	1220.0	1217.5
2°	1209.0	1200.8	1199.5	1210.8	1208.5
3°	1198.2	1190.8	1188.2	1200.0	1198.5
4°	1183.9	1176.9	1174.6	1186.4	1185.2
5°	1163.9	1156.7	1155.1	1166.7	1165.7
6°	1139.2	1133.3	1130.5	1142.1	1140.0
7°	1108.5	1103.1	1100.0	1108.5	1109.5
8°	1068.5	1065.9	1062.3	1070.8	1070.8
9°	1025.9	1023.6	1019.7	1027.4	1027.4
10°	980.2	978.7	974.1	981.3	981.3
11°	930.2	929.5	926.1	932.0	932.0
12°	877.6	879.4	876.4	881.5	879.7
13°	825.1	824.3	824.6	828.4	825.6
14°	765.6	770.2	771.0	773.3	768.9
15°	708.6	714.5	713.2	716.6	710.9
16°	650.4	657.1	656.8	657.6	652.2
17°	596.0	599.9	600.1	599.4	592.7
18°	538.1	543.5	543.5	542.2	534.2
19°	481.4	485.5	488.3	485.5	476.3
20°	430.4	433.2	438.3	431.1	420.9
21°	381.4	383.9	388.3	379.8	368.5
22°	334.4	337.8	341.9	332.1	320.3
23°	290.6	298.3	299.8	286.5	276.5
24°	250.3	259.0	261.6	248.0	237.5
25°	214.4	224.2	230.1	214.2	203.6
26°	183.4	192.9	200.0	184.1	174.1
27°	156.2	166.2	173.6	158.8	149.3
28°	132.9	142.6	150.3	136.4	127.5
29°	115.4	121.1	128.7	117.2	109.0
30°	98.2	104.4	112.6	100.8	93.6
32.5°	67.5	70.8	77.2	70.0	64.4
35°	48.0	50.0	53.1	48.2	44.9
37.5°	34.1	35.1	36.9	34.1	32.3
40°	25.1	25.6	26.4	24.9	23.9
42.5°	18.7	19.0	19.0	18.5	18.0
45°	14.1	14.4	14.1	14.1	13.6
47.5°	10.3	11.0	10.8	10.8	10.0
50°	6.7	8.2	8.2	8.0	6.7
52.5°	4.1	5.6	6.4	5.6	4.4
55°	3.1	3.8	4.9	3.8	3.3
57.5°	3.1	3.1	3.6	3.1	3.1
60°	3.1	3.1	3.1	3.1	3.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.8	2.8	2.8	2.8	2.8
70°	2.8	2.8	2.6	2.8	2.8
72.5°	2.6	2.6	2.3	2.6	2.3
75°	2.1	2.1	2.1	2.1	2.1
77.5°	1.5	1.5	1.5	1.5	1.5
80°	1.3	1.3	1.3	1.3	1.3
82.5°	0.8	0.8	0.8	1.0	0.8
85°	0.5	0.5	0.5	0.5	0.5
87.5°	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	3.1	3.1	3.1	3.1	3.1
65°	2.8	3.1	2.8	3.1	2.8



(END OF REPORT)