

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: P283849

Luminaire Tested: **LDA2B059035D010 EU2B05WFL559035 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283849
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: LDA2B059035D010 EU2B05WFL559035 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: 563.4 lumens
Efficiency: N/A
Efficacy: 80.5 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

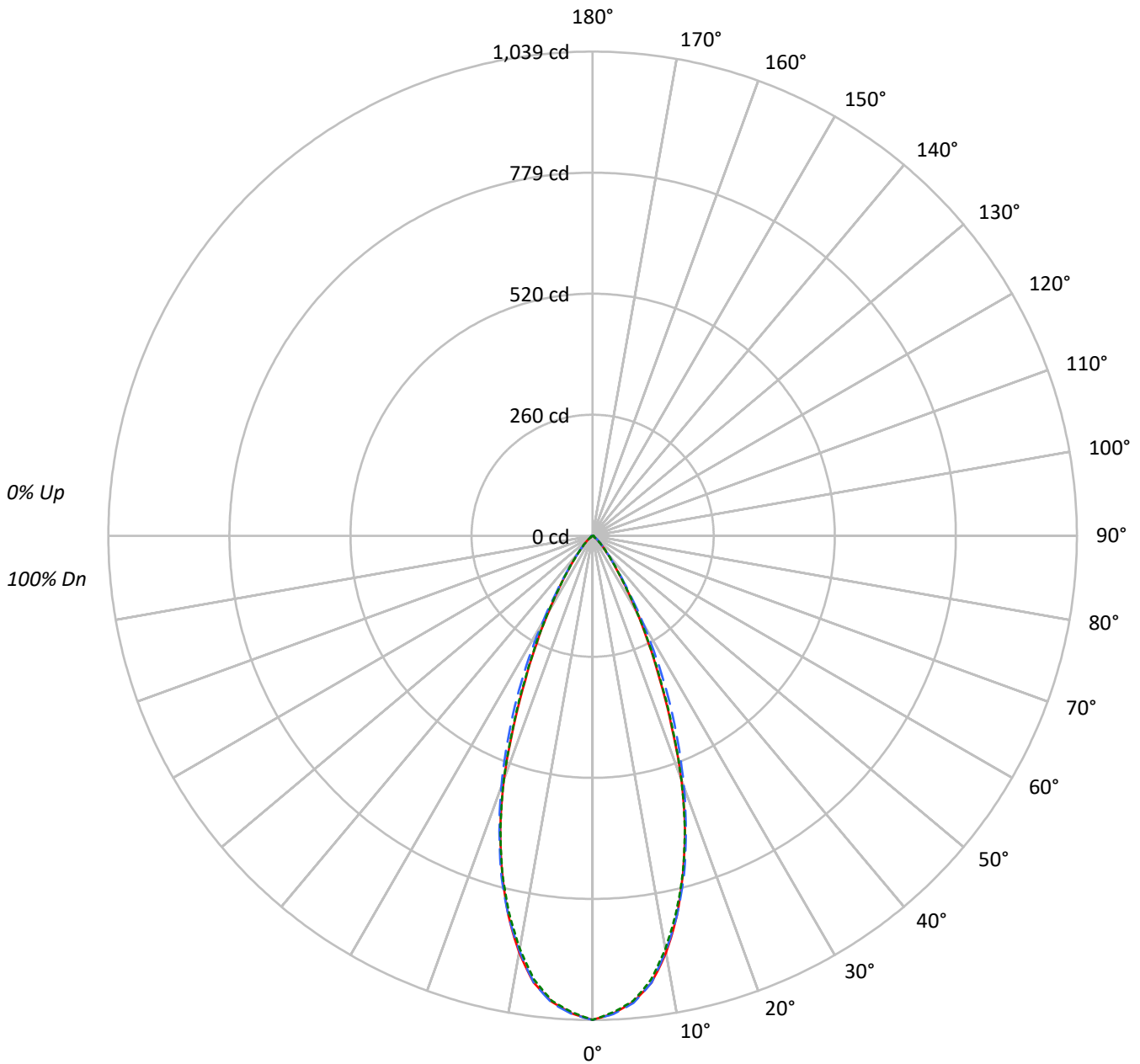
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	512554	512554	512554
5°	497128	498317	496088
10°	455033	453230	450525
15°	382768	386292	382155
20°	292701	300472	292229
25°	185846	209580	189493
30°	108126	122027	110006
35°	57157	60770	57337
40°	30141	31558	30141
45°	16885	17513	17094
50°	7906	9978	7906
55°	2838	5419	3097
60°	3256	3256	3256
65°	3502	3852	3502
70°	4327	3895	4327
75°	4003	4003	4003
80°	4262	3409	4262
85°	3396	3396	3396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.7	16.5
10°-20°	206.5	36.6
20°-30°	166.7	29.6
30°-40°	65.9	11.7
40°-50°	20.2	3.6
50°-60°	5.2	0.9
60°-70°	3.1	0.6
70°-80°	2.3	0.4
80°-90°	0.7	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°	466.0	82.7
0°-40°	531.9	94.4
0°-60°	557.3	98.9
0°-90°	563.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	563.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1039	1039	1039	1039	1039	
5°	1004	1006	1006	1004	1002	93
15°	749	752	756	753	748	206
25°	341	358	385	364	348	159
35°	95	98	101	98	95	64
45°	24	24	25	25	24	20
55°	3	4	6	4	4	4
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
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°	1038.9	1038.9	1038.9	1038.9	1038.9
2.5°	1025.9	1026.5	1027.4	1026.2	1023.1
5°	1003.8	1005.6	1006.2	1004.1	1001.7
7.5°	967.5	965.4	967.2	963.6	960.6
10°	908.3	905.6	904.7	899.3	899.3
12.5°	835.2	834.3	834.9	832.2	827.9
15°	749.4	751.5	756.3	753.3	748.2
17.5°	658.4	661.4	665.7	664.8	657.8
20°	557.5	566.3	572.3	566.6	556.6
22.5°	442.7	461.4	476.8	464.7	448.4
25°	341.4	357.8	385.0	364.4	348.1
27.5°	259.0	270.7	295.5	275.3	264.1
30°	189.8	197.0	214.2	200.9	193.1
32.5°	135.7	140.8	148.1	140.2	136.3
35°	94.9	97.6	100.9	97.9	95.2
37.5°	66.8	67.7	70.1	67.7	66.5
40°	46.8	47.1	49.0	47.4	46.8
42.5°	33.8	33.8	34.7	34.1	33.8
45°	24.2	24.5	25.1	24.8	24.5
47.5°	17.2	17.8	17.8	18.1	16.9
50°	10.3	12.7	13.0	12.7	10.3
52.5°	5.4	7.6	9.4	7.6	5.4
55°	3.3	4.5	6.3	4.5	3.6
57.5°	3.3	3.3	4.2	3.6	3.3
60°	3.3	3.3	3.3	3.3	3.3
62.5°	3.3	3.3	3.3	3.3	3.3
65°	3.0	3.3	3.3	3.3	3.0
67.5°	3.0	3.0	3.0	3.0	3.0
70°	3.0	3.0	2.7	3.0	3.0
72.5°	2.7	2.7	2.4	2.7	2.7
75°	2.1	2.1	2.1	2.1	2.1
77.5°	1.8	1.8	1.8	1.8	1.8
80°	1.5	1.5	1.2	1.5	1.5
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.6	0.6	0.6	0.6	0.6
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°







(END OF REPORT)