

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: P283938

Luminaire Tested: **LDA2B109040D010 EU2B10WFL559040 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283938
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: LDA2B109040D010 EU2B10WFL559040 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 768.5 lumens
Efficiency: N/A
Efficacy: 76.8 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

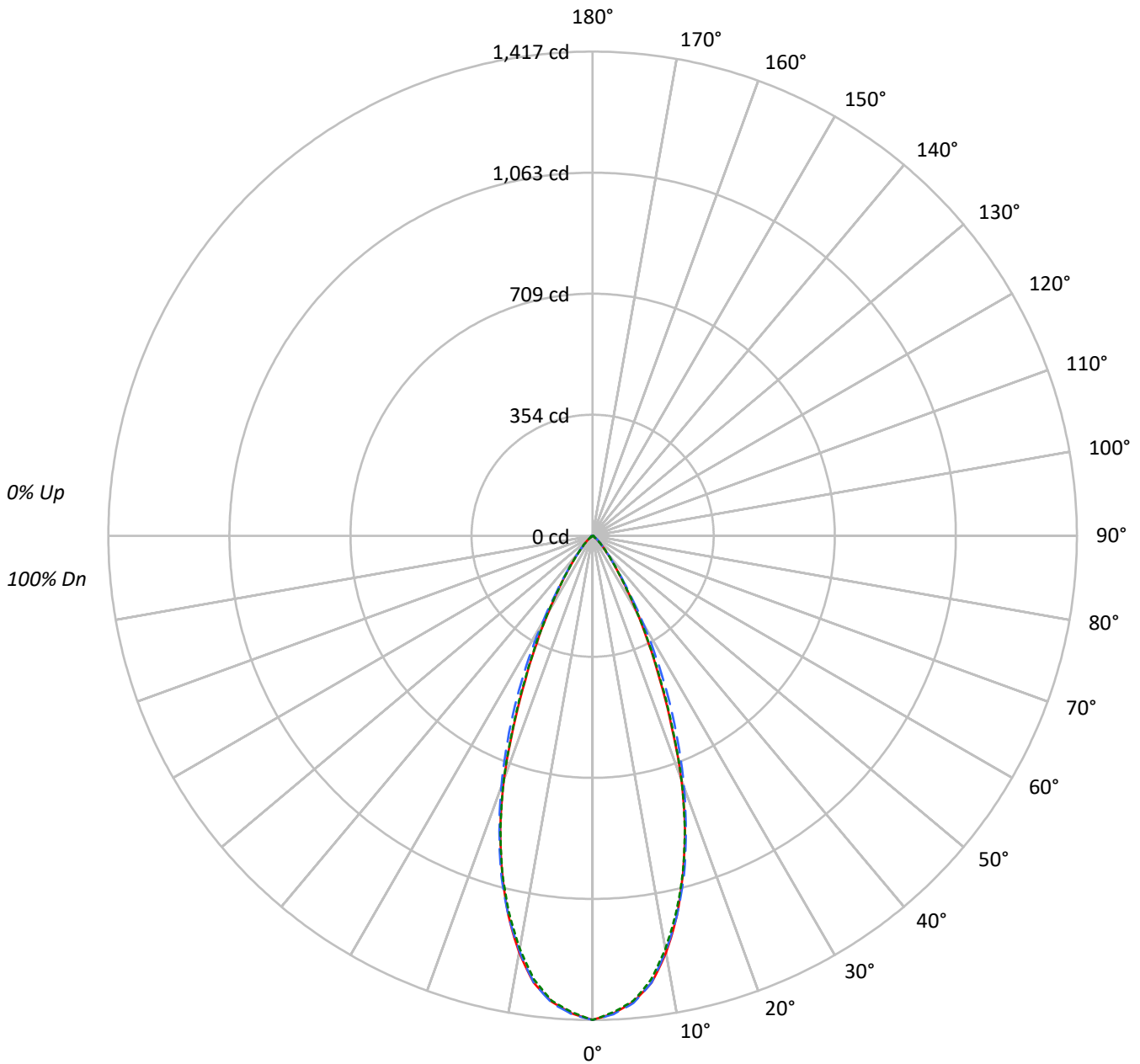
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89					89			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84					84			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79					79			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75					75			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71					71			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67					67			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64					64			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61					61			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58					58			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	699044	699044	699044
5°	678042	679676	676606
10°	620655	618150	614443
15°	522054	526906	521185
20°	399229	409834	398599
25°	253511	285846	258464
30°	147435	166462	150055
35°	77935	82934	78176
40°	41154	43022	41154
45°	23025	23862	23304
50°	10745	13585	10745
55°	3871	7483	4215
60°	4440	4440	4440
65°	4786	5253	4786
70°	5914	5337	5914
75°	5528	5528	5528
80°	5966	4546	5966
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	16.5
10°-20°	281.6	36.6
20°-30°	227.4	29.6
30°-40°	89.9	11.7
40°-50°	27.6	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°	635.5	82.7
0°-40°	725.4	94.4
0°-60°	760.1	98.9
0°-90°	768.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	768.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1417	1417	1417	1417	1417	
5°	1369	1372	1372	1370	1366	127
15°	1022	1025	1032	1028	1020	281
25°	466	488	525	497	475	217
35°	129	133	138	134	130	87
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°	1416.9	1416.9	1416.9	1416.9	1416.9
2.5°	1399.2	1400.0	1401.3	1399.6	1395.5
5°	1369.1	1371.6	1372.4	1369.5	1366.2
7.5°	1319.7	1316.8	1319.2	1314.3	1310.2
10°	1238.9	1235.2	1233.9	1226.5	1226.5
12.5°	1139.1	1137.9	1138.7	1135.0	1129.3
15°	1022.1	1025.0	1031.6	1027.5	1020.4
17.5°	898.0	902.2	907.9	906.7	897.2
20°	760.4	772.3	780.6	772.8	759.2
22.5°	603.8	629.3	650.3	633.9	611.6
25°	465.7	488.0	525.1	497.0	474.8
27.5°	353.2	369.3	403.1	375.5	360.2
30°	258.8	268.7	292.2	274.1	263.4
32.5°	185.0	192.1	201.9	191.2	185.9
35°	129.4	133.1	137.7	133.5	129.8
37.5°	91.1	92.3	95.6	92.3	90.7
40°	63.9	64.3	66.8	64.7	63.9
42.5°	46.2	46.2	47.4	46.6	46.2
45°	33.0	33.4	34.2	33.8	33.4
47.5°	23.5	24.3	24.3	24.7	23.1
50°	14.0	17.3	17.7	17.3	14.0
52.5°	7.4	10.3	12.8	10.3	7.4
55°	4.5	6.2	8.7	6.2	4.9
57.5°	4.5	4.5	5.8	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°	2.1	2.1	1.6	2.1	2.1
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)