

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: P284067

Luminaire Tested: **LDA2B208040D010 EU2B20WFL558040 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284067
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: LDA2B208040D010 EU2B20WFL558040 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1886.1 lumens
Efficiency: N/A
Efficacy: 91.6 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

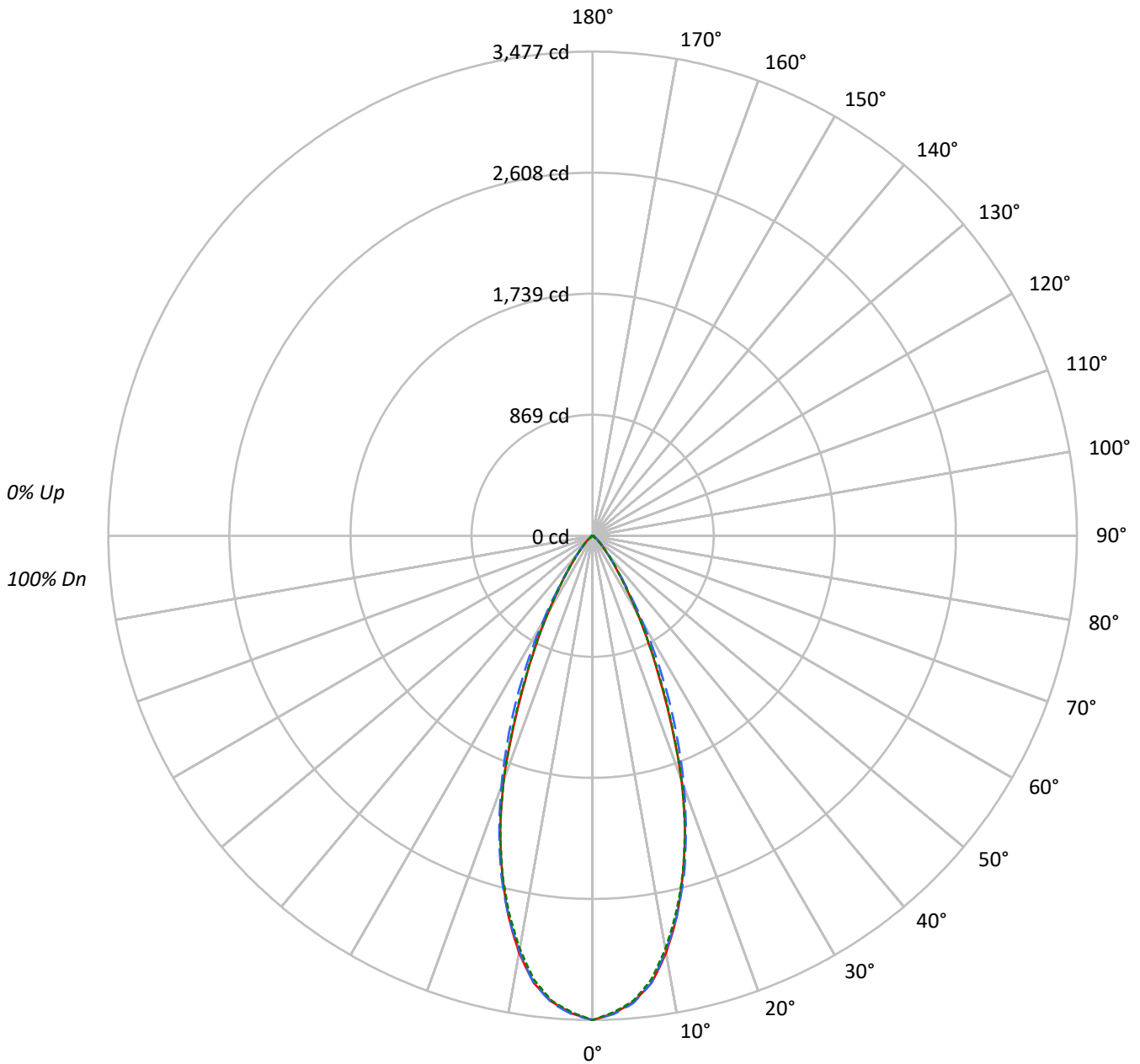
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1715616	1715616	1715616
5°	1664077	1668089	1660561
10°	1523157	1517096	1507978
15°	1281205	1293106	1279162
20°	979748	1005790	978173
25°	622154	701468	634294
30°	361864	408521	368187
35°	191285	203451	191888
40°	100985	105558	100985
45°	56445	58608	57143
50°	26403	33388	26403
55°	9548	18235	10408
60°	10953	10953	10953
65°	11791	12958	11791
70°	14569	13127	14569
75°	13534	13534	13534
80°	14490	11365	14490
85°	11321	11321	11321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.4	16.5
10°-20°	691.1	36.6
20°-30°	558.2	29.6
30°-40°	220.6	11.7
40°-50°	67.7	3.6
50°-60°	17.5	0.9
60°-70°	10.5	0.6
70°-80°	7.8	0.4
80°-90°	2.3	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°	1559.7	82.7
0°-40°	1780.3	94.4
0°-60°	1865.5	98.9
0°-90°	1886.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1886.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3477	3477	3477	3477	3477	
5°	3360	3366	3368	3361	3353	311
15°	2508	2516	2532	2522	2504	689
25°	1143	1198	1289	1220	1165	532
35°	318	327	338	328	319	213
45°	81	82	84	83	82	66
55°	11	15	21	15	12	14
65°	10	11	11	11	10	10
75°	7	7	7	7	7	8
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3477.4	3477.4	3477.4	3477.4	3477.4
2.5°	3433.9	3435.9	3439.0	3434.9	3424.8
5°	3360.1	3366.1	3368.2	3361.1	3353.0
7.5°	3238.7	3231.6	3237.7	3225.5	3215.4
10°	3040.4	3031.3	3028.3	3010.1	3010.1
12.5°	2795.7	2792.6	2794.7	2785.6	2771.4
15°	2508.4	2515.5	2531.7	2521.6	2504.4
17.5°	2204.0	2214.1	2228.2	2225.2	2201.9
20°	1866.1	1895.5	1915.7	1896.5	1863.1
22.5°	1481.8	1544.5	1596.1	1555.6	1501.0
25°	1142.9	1197.6	1288.6	1219.8	1165.2
27.5°	866.8	906.3	989.2	921.4	884.0
30°	635.2	659.5	717.1	672.6	646.3
32.5°	454.1	471.3	495.6	469.3	456.2
35°	317.6	326.7	337.8	327.7	318.6
37.5°	223.5	226.6	234.7	226.6	222.5
40°	156.8	157.8	163.9	158.8	156.8
42.5°	113.3	113.3	116.3	114.3	113.3
45°	80.9	81.9	84.0	82.9	81.9
47.5°	57.7	59.7	59.7	60.7	56.6
50°	34.4	42.5	43.5	42.5	34.4
52.5°	18.2	25.3	31.4	25.3	18.2
55°	11.1	15.2	21.2	15.2	12.1
57.5°	11.1	11.1	14.2	12.1	11.1
60°	11.1	11.1	11.1	11.1	11.1
62.5°	11.1	11.1	11.1	11.1	11.1
65°	10.1	11.1	11.1	11.1	10.1
67.5°	10.1	10.1	10.1	10.1	10.1
70°	10.1	10.1	9.1	10.1	10.1
72.5°	9.1	9.1	8.1	9.1	9.1
75°	7.1	7.1	7.1	7.1	7.1
77.5°	6.1	6.1	6.1	6.1	6.1
80°	5.1	5.1	4.0	5.1	5.1
82.5°	3.0	3.0	3.0	3.0	3.0
85°	2.0	2.0	2.0	2.0	2.0
87.5°	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)