

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: P284123

Luminaire Tested: **LDA2B209730D010 EU2B20WFL559730 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284123
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: LDA2B209730D010 EU2B20WFL559730 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1280.0 lumens
Efficiency: N/A
Efficacy: 62.1 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

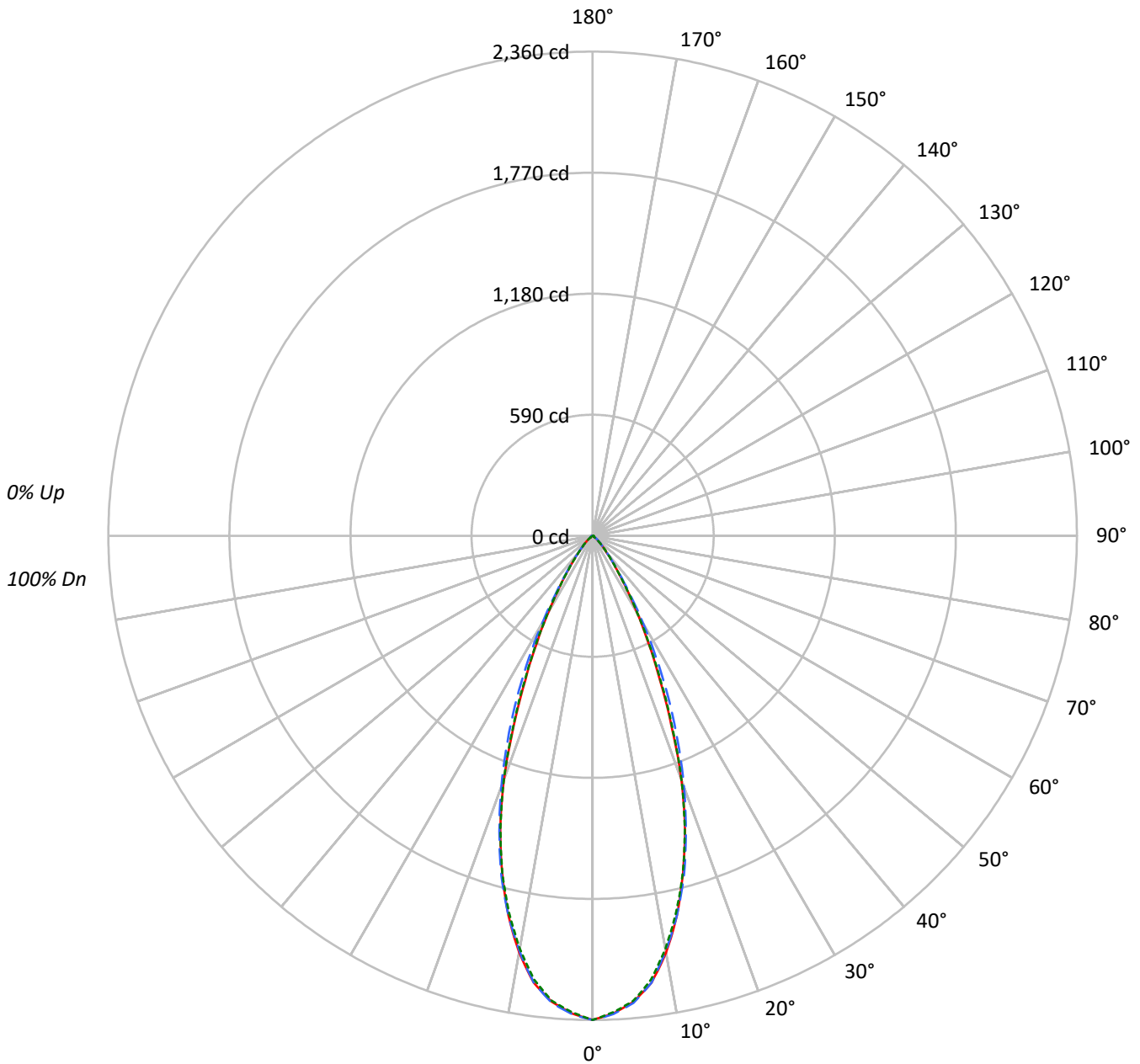
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1164284	1164284	1164284
5°	1129261	1131985	1126884
10°	1033657	1029549	1023337
15°	869476	877547	868046
20°	664891	682532	663841
25°	422209	476047	430429
30°	245591	277266	249864
35°	129792	138104	130214
40°	68526	71617	68526
45°	38305	39770	38793
50°	17884	22642	17884
55°	6537	12386	7053
60°	7499	7499	7499
65°	8055	8872	8055
70°	9953	8943	9953
75°	9150	9150	9150
80°	9660	7671	9660
85°	7925	7925	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.6	16.5
10°-20°	469.0	36.6
20°-30°	378.8	29.6
30°-40°	149.7	11.7
40°-50°	46.0	3.6
50°-60°	11.9	0.9
60°-70°	7.2	0.6
70°-80°	5.2	0.4
80°-90°	1.6	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°	1058.5	82.7
0°-40°	1208.2	94.4
0°-60°	1266.0	98.9
0°-90°	1280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1280.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2360	2360	2360	2360	2360	
5°	2280	2284	2286	2281	2275	211
15°	1702	1707	1718	1711	1700	468
25°	776	813	874	828	791	361
35°	216	222	229	222	216	144
45°	55	56	57	56	56	45
55°	8	10	14	10	8	10
65°	7	8	8	8	7	7
75°	5	5	5	5	5	5
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2359.9	2359.9	2359.9	2359.9	2359.9
2.5°	2330.3	2331.7	2333.8	2331.0	2324.2
5°	2280.2	2284.4	2285.7	2280.9	2275.4
7.5°	2197.9	2193.1	2197.2	2188.9	2182.1
10°	2063.3	2057.2	2055.1	2042.7	2042.7
12.5°	1897.2	1895.2	1896.5	1890.4	1880.7
15°	1702.3	1707.1	1718.1	1711.2	1699.5
17.5°	1495.7	1502.5	1512.1	1510.1	1494.3
20°	1266.4	1286.3	1300.0	1287.0	1264.4
22.5°	1005.6	1048.1	1083.1	1055.7	1018.6
25°	775.6	812.7	874.5	827.8	790.7
27.5°	588.2	615.0	671.3	625.3	599.9
30°	431.1	447.5	486.7	456.5	438.6
32.5°	308.2	319.9	336.3	318.5	309.6
35°	215.5	221.7	229.3	222.4	216.2
37.5°	151.7	153.8	159.2	153.8	151.0
40°	106.4	107.1	111.2	107.8	106.4
42.5°	76.9	76.9	78.9	77.6	76.9
45°	54.9	55.6	57.0	56.3	55.6
47.5°	39.1	40.5	40.5	41.2	38.4
50°	23.3	28.8	29.5	28.8	23.3
52.5°	12.4	17.2	21.3	17.2	12.4
55°	7.6	10.3	14.4	10.3	8.2
57.5°	7.6	7.6	9.6	8.2	7.6
60°	7.6	7.6	7.6	7.6	7.6
62.5°	7.6	7.6	7.6	7.6	7.6
65°	6.9	7.6	7.6	7.6	6.9
67.5°	6.9	6.9	6.9	6.9	6.9
70°	6.9	6.9	6.2	6.9	6.9
72.5°	6.2	6.2	5.5	6.2	6.2
75°	4.8	4.8	4.8	4.8	4.8
77.5°	4.1	4.1	4.1	4.1	4.1
80°	3.4	3.4	2.7	3.4	3.4
82.5°	2.1	2.1	2.1	2.1	2.1
85°	1.4	1.4	1.4	1.4	1.4
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)