

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: P283750

Luminaire Tested: **LDA2B209027D010 EU2B20FL409027 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283750
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: LDA2B209027D010 EU2B20FL409027 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1347.3 lumens
Efficiency: N/A
Efficacy: 65.4 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

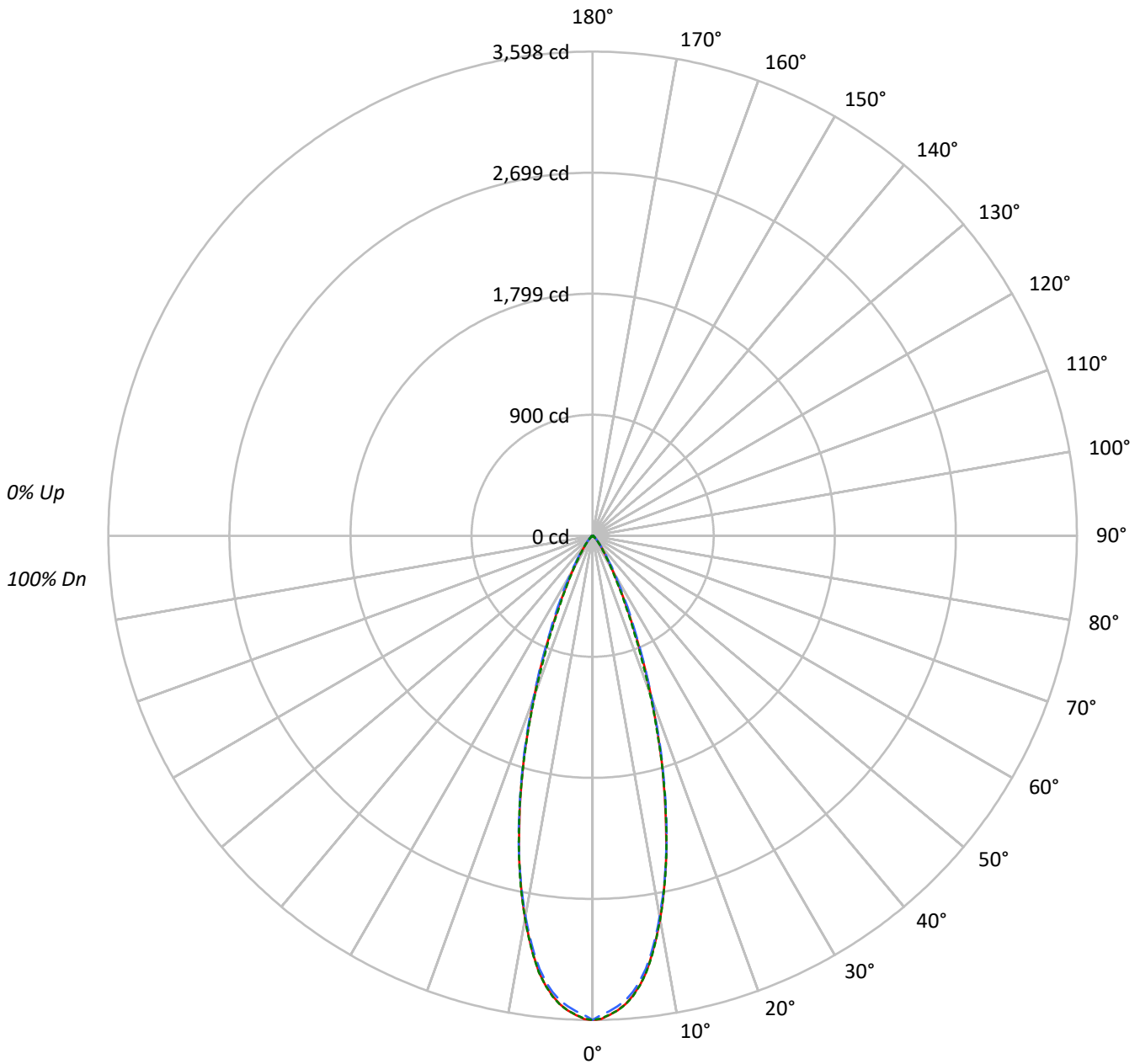
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1775165	1775165	1775165
5°	1698844	1686116	1701468
10°	1447310	1438242	1448863
15°	1066734	1073732	1070207
20°	665941	678227	651241
25°	343984	369079	326728
30°	164924	189022	157176
35°	85163	94257	79682
40°	47723	50171	45276
45°	29025	29025	27979
50°	15120	18574	15120
55°	7827	12386	8429
60°	8979	8979	8979
65°	9689	9689	9689
70°	11973	10963	11973
75°	11437	11437	11437
80°	10796	10796	10796
85°	8491	8491	8491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.5	23.0
10°-20°	568.5	42.2
20°-30°	308.2	22.9
30°-40°	98.9	7.3
40°-50°	33.7	2.5
50°-60°	11.8	0.9
60°-70°	8.6	0.6
70°-80°	6.3	0.5
80°-90°	1.8	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°	1186.2	88.0
0°-40°	1285.1	95.4
0°-60°	1330.6	98.8
0°-90°	1347.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1347.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3598	3598	3598	3598	3598	
5°	3430	3409	3405	3439	3436	310
15°	2088	2106	2102	2112	2095	566
25°	632	661	678	631	600	303
35°	141	147	156	142	132	95
45°	42	42	42	42	40	33
55°	9	11	14	11	10	10
65°	8	9	8	9	8	9
75°	6	6	6	6	6	6
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°	3598.1	3598.1	3598.1	3598.1	3598.1
1°	3592.0	3566.3	3562.5	3595.8	3588.2
2°	3563.3	3539.1	3535.3	3568.6	3561.8
3°	3531.6	3509.6	3502.1	3536.8	3532.3
4°	3489.2	3468.8	3462.0	3496.8	3493.0
5°	3430.3	3409.1	3404.6	3438.6	3435.6
6°	3357.7	3340.3	3332.0	3366.0	3360.0
7°	3267.0	3251.1	3242.0	3267.0	3270.0
8°	3149.1	3141.5	3130.9	3155.9	3155.9
9°	3023.6	3016.8	3005.5	3028.1	3028.1
10°	2889.0	2884.5	2870.9	2892.1	2892.1
11°	2741.6	2739.4	2729.5	2746.9	2746.9
12°	2586.7	2592.0	2582.9	2598.0	2592.7
13°	2431.7	2429.5	2430.2	2441.6	2433.2
14°	2256.4	2270.0	2272.2	2279.0	2266.2
15°	2088.5	2105.9	2102.2	2112.0	2095.3
16°	1917.0	1936.6	1935.9	1938.1	1922.2
17°	1756.7	1768.0	1768.8	1766.5	1746.9
18°	1585.9	1601.7	1601.7	1598.0	1574.5
19°	1418.8	1430.9	1439.2	1430.9	1403.7
20°	1268.4	1276.7	1291.8	1270.7	1240.4
21°	1124.0	1131.6	1144.4	1119.5	1086.2
22°	985.7	995.5	1007.6	978.9	944.1
23°	856.4	879.1	883.6	844.3	814.9
24°	737.8	763.5	771.0	731.0	700.0
25°	631.9	660.7	678.0	631.2	600.2
26°	540.5	568.4	589.6	542.7	513.3
27°	460.3	489.8	511.7	467.9	439.9
28°	391.6	420.3	443.0	402.1	375.7
29°	340.2	356.8	379.5	345.4	321.3
30°	289.5	307.7	331.8	297.1	275.9
32.5°	198.8	208.6	227.5	206.4	189.7
35°	141.4	147.4	156.5	142.1	132.3
37.5°	100.5	103.6	108.8	100.5	95.2
40°	74.1	75.6	77.9	73.3	70.3
42.5°	55.2	55.9	55.9	54.4	52.9
45°	41.6	42.3	41.6	41.6	40.1
47.5°	30.2	32.5	31.7	31.7	29.5
50°	19.7	24.2	24.2	23.4	19.7
52.5°	12.1	16.6	18.9	16.6	12.9
55°	9.1	11.3	14.4	11.3	9.8
57.5°	9.1	9.1	10.6	9.1	9.1
60°	9.1	9.1	9.1	9.1	9.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	8.3	8.3	8.3	8.3	8.3
70°	8.3	8.3	7.6	8.3	8.3
72.5°	7.6	7.6	6.8	7.6	6.8
75°	6.0	6.0	6.0	6.0	6.0
77.5°	4.5	4.5	4.5	4.5	4.5
80°	3.8	3.8	3.8	3.8	3.8
82.5°	2.3	2.3	2.3	3.0	2.3
85°	1.5	1.5	1.5	1.5	1.5
87.5°	0.8	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	9.1	9.1	9.1	9.1	9.1
65°	8.3	9.1	8.3	9.1	8.3



(END OF REPORT)