

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: P284056

Luminaire Tested: **LDA2B208030D010 EU2B20WFL558030 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284056
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: LDA2B208030D010 EU2B20WFL558030 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1826.8 lumens
Efficiency: N/A
Efficacy: 88.7 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

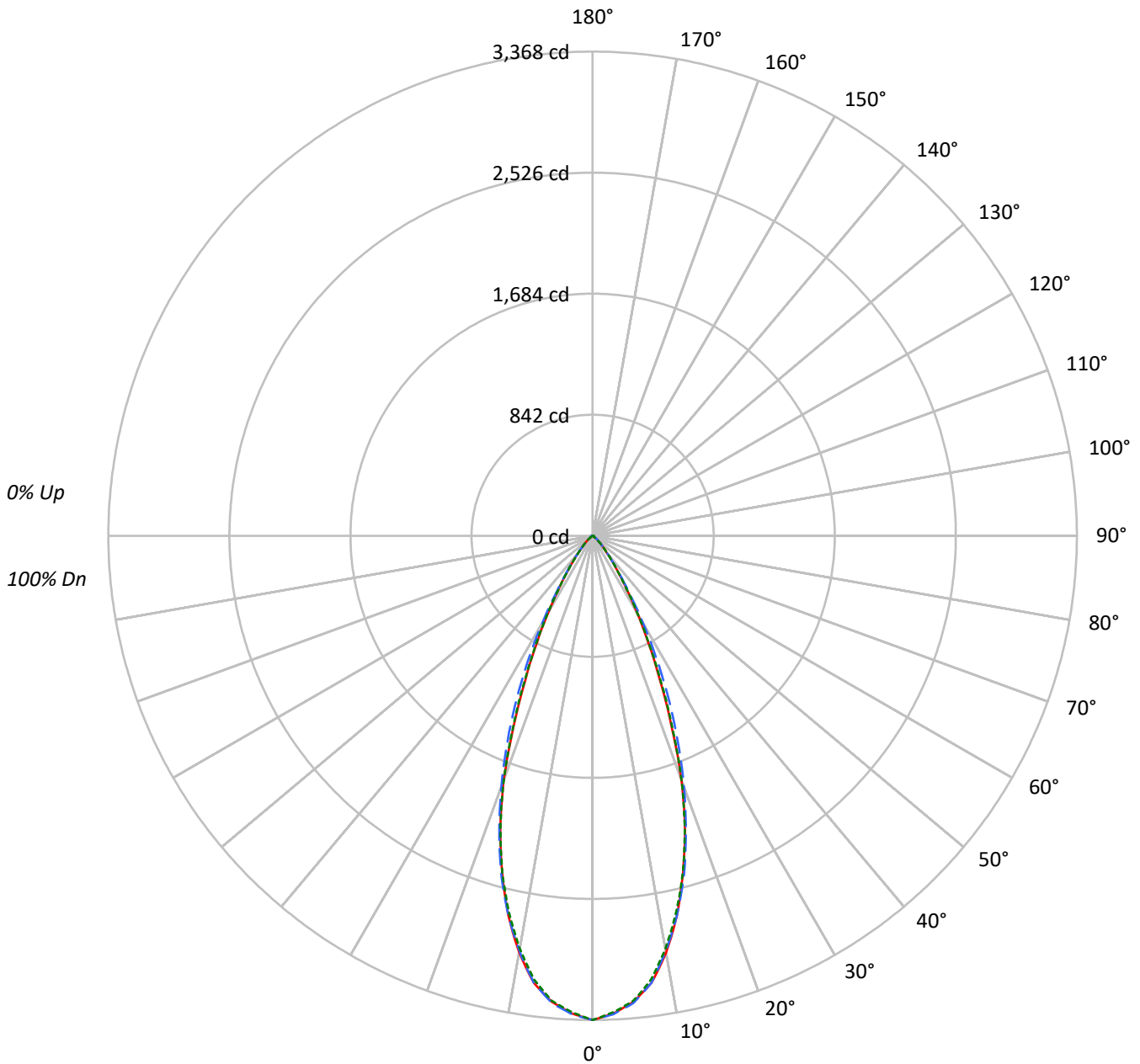
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	1661593	1661593	1661593
5°	1611680	1615543	1608263
10°	1475214	1469353	1460486
15°	1240854	1252398	1238862
20°	948930	974131	947354
25°	602612	679367	614315
30°	350470	395646	356623
35°	185262	197067	185865
40°	97765	102209	97765
45°	54701	56725	55329
50°	25559	32313	25559
55°	9290	17719	10150
60°	10657	10657	10657
65°	11440	12608	11440
70°	14136	12694	14136
75°	13153	13153	13153
80°	13922	11081	13922
85°	11321	11321	11321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.6	16.5
10°-20°	669.4	36.6
20°-30°	540.6	29.6
30°-40°	213.7	11.7
40°-50°	65.6	3.6
50°-60°	16.9	0.9
60°-70°	10.2	0.6
70°-80°	7.5	0.4
80°-90°	2.2	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°	1510.6	82.7
0°-40°	1724.3	94.4
0°-60°	1806.8	98.9
0°-90°	1826.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1826.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3368	3368	3368	3368	3368	
5°	3254	3260	3262	3255	3247	301
15°	2429	2436	2452	2442	2426	667
25°	1107	1160	1248	1181	1128	515
35°	308	316	327	317	309	206
45°	78	79	81	80	79	64
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°	3367.9	3367.9	3367.9	3367.9	3367.9
2.5°	3325.8	3327.7	3330.7	3326.8	3317.0
5°	3254.3	3260.2	3262.1	3255.3	3247.4
7.5°	3136.7	3129.9	3135.7	3124.0	3114.2
10°	2944.7	2935.9	2933.0	2915.3	2915.3
12.5°	2707.7	2704.7	2706.7	2697.9	2684.1
15°	2429.4	2436.3	2452.0	2442.2	2425.5
17.5°	2134.6	2144.4	2158.1	2155.2	2132.6
20°	1807.4	1835.8	1855.4	1836.8	1804.4
22.5°	1435.1	1495.9	1545.8	1506.6	1453.7
25°	1107.0	1159.9	1248.0	1181.4	1128.5
27.5°	839.5	877.7	958.1	892.4	856.2
30°	615.2	638.7	694.5	651.4	626.0
32.5°	439.8	456.5	480.0	454.5	441.8
35°	307.6	316.4	327.2	317.4	308.6
37.5°	216.5	219.4	227.3	219.4	215.5
40°	151.8	152.8	158.7	153.8	151.8
42.5°	109.7	109.7	112.7	110.7	109.7
45°	78.4	79.3	81.3	80.3	79.3
47.5°	55.8	57.8	57.8	58.8	54.9
50°	33.3	41.1	42.1	41.1	33.3
52.5°	17.6	24.5	30.4	24.5	17.6
55°	10.8	14.7	20.6	14.7	11.8
57.5°	10.8	10.8	13.7	11.8	10.8
60°	10.8	10.8	10.8	10.8	10.8
62.5°	10.8	10.8	10.8	10.8	10.8
65°	9.8	10.8	10.8	10.8	9.8
67.5°	9.8	9.8	9.8	9.8	9.8
70°	9.8	9.8	8.8	9.8	9.8
72.5°	8.8	8.8	7.8	8.8	8.8
75°	6.9	6.9	6.9	6.9	6.9
77.5°	5.9	5.9	5.9	5.9	5.9
80°	4.9	4.9	3.9	4.9	4.9
82.5°	2.9	2.9	2.9	2.9	2.9
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)