

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: P284063

Luminaire Tested: **LDA2B208035D010 EU2B20WFL558035 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284063
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: LDA2B208035D010 EU2B20WFL558035 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: 1748.0 lumens
Efficiency: N/A
Efficacy: 84.9 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

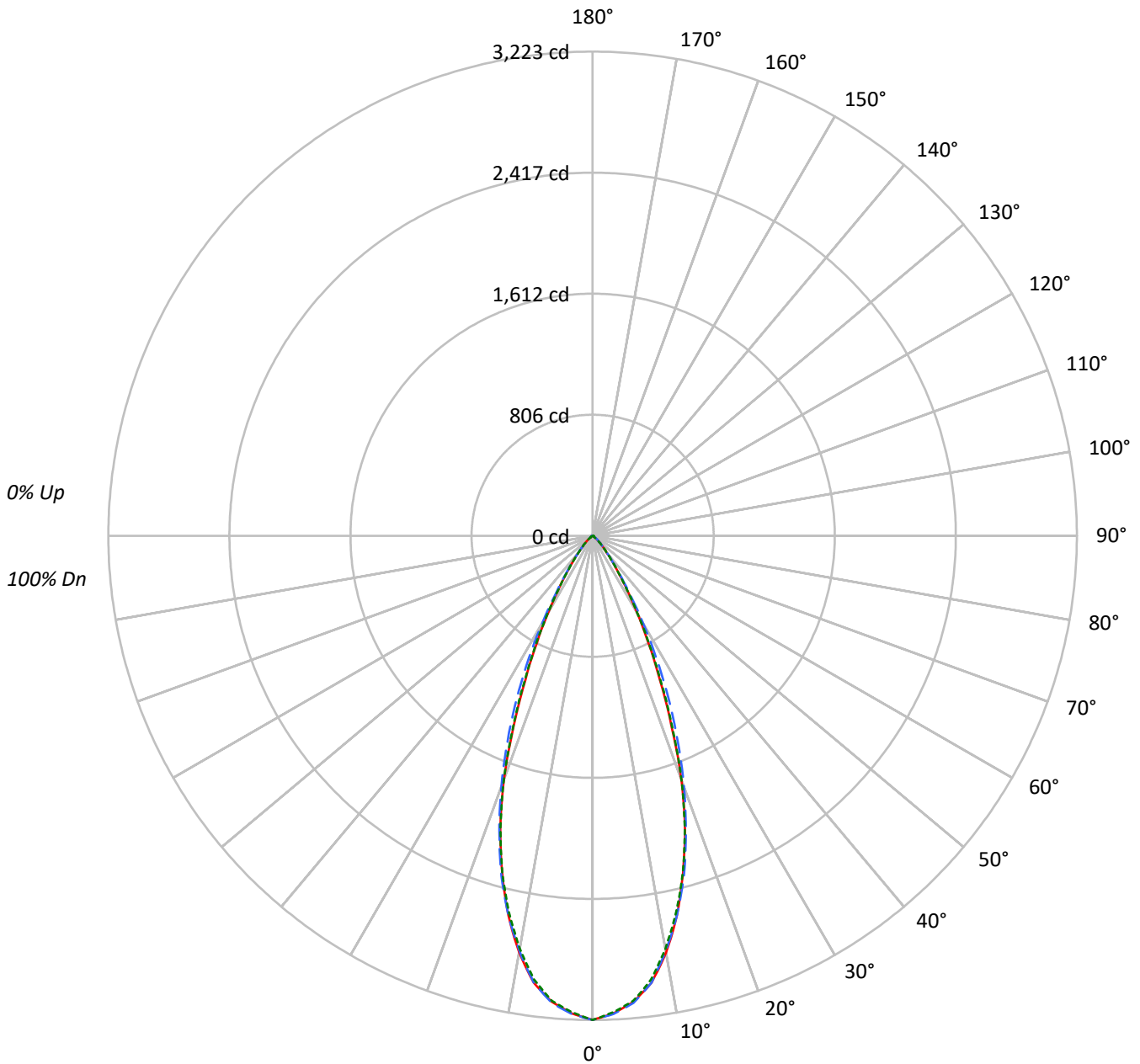
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1590006	1590006	1590006
5°	1542197	1545911	1538978
10°	1411641	1406030	1397564
15°	1187377	1198410	1185487
20°	908030	932129	906560
25°	576645	650080	587859
30°	335374	378613	341241
35°	177252	188575	177854
40°	93579	97829	93579
45°	52329	54283	52957
50°	24484	30932	24484
55°	8860	16945	9634
60°	10163	10163	10163
65°	10973	12024	10973
70°	13559	12117	13559
75°	12581	12581	12581
80°	13353	10512	13353
85°	10755	10755	10755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.7	16.5
10°-20°	640.5	36.6
20°-30°	517.3	29.6
30°-40°	204.5	11.7
40°-50°	62.8	3.6
50°-60°	16.2	0.9
60°-70°	9.8	0.6
70°-80°	7.2	0.4
80°-90°	2.1	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°	1445.5	82.7
0°-40°	1650.0	94.4
0°-60°	1728.9	98.9
0°-90°	1748.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1748.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3223	3223	3223	3223	3223	
5°	3114	3120	3122	3115	3108	288
15°	2325	2331	2346	2337	2321	638
25°	1059	1110	1194	1130	1080	493
35°	294	303	313	304	295	197
45°	75	76	78	77	76	61
55°	10	14	20	14	11	13
65°	9	10	10	10	9	10
75°	7	7	7	7	7	7
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°	3222.8	3222.8	3222.8	3222.8	3222.8
2.5°	3182.5	3184.3	3187.1	3183.4	3174.0
5°	3114.0	3119.6	3121.5	3115.0	3107.5
7.5°	3001.5	2995.0	3000.6	2989.3	2980.0
10°	2817.8	2809.4	2806.6	2789.7	2789.7
12.5°	2591.0	2588.1	2590.0	2581.6	2568.5
15°	2324.7	2331.3	2346.3	2336.9	2321.0
17.5°	2042.6	2052.0	2065.1	2062.3	2040.7
20°	1729.5	1756.7	1775.4	1757.6	1726.7
22.5°	1373.3	1431.4	1479.2	1441.7	1391.1
25°	1059.3	1109.9	1194.2	1130.5	1079.9
27.5°	803.3	839.9	916.8	854.0	819.3
30°	588.7	611.2	664.6	623.4	599.0
32.5°	420.9	436.8	459.3	435.0	422.8
35°	294.3	302.8	313.1	303.7	295.3
37.5°	207.2	210.0	217.5	210.0	206.2
40°	145.3	146.2	151.9	147.2	145.3
42.5°	105.0	105.0	107.8	105.9	105.0
45°	75.0	75.9	77.8	76.9	75.9
47.5°	53.4	55.3	55.3	56.2	52.5
50°	31.9	39.4	40.3	39.4	31.9
52.5°	16.9	23.4	29.1	23.4	16.9
55°	10.3	14.1	19.7	14.1	11.2
57.5°	10.3	10.3	13.1	11.2	10.3
60°	10.3	10.3	10.3	10.3	10.3
62.5°	10.3	10.3	10.3	10.3	10.3
65°	9.4	10.3	10.3	10.3	9.4
67.5°	9.4	9.4	9.4	9.4	9.4
70°	9.4	9.4	8.4	9.4	9.4
72.5°	8.4	8.4	7.5	8.4	8.4
75°	6.6	6.6	6.6	6.6	6.6
77.5°	5.6	5.6	5.6	5.6	5.6
80°	4.7	4.7	3.7	4.7	4.7
82.5°	2.8	2.8	2.8	2.8	2.8
85°	1.9	1.9	1.9	1.9	1.9
87.5°	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)