

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: P284098

Luminaire Tested: **LDA2B209035D010 EU2B20WFL559035 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284098
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: LDA2B209035D010 EU2B20WFL559035 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: 1529.7 lumens
Efficiency: N/A
Efficacy: 74.3 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

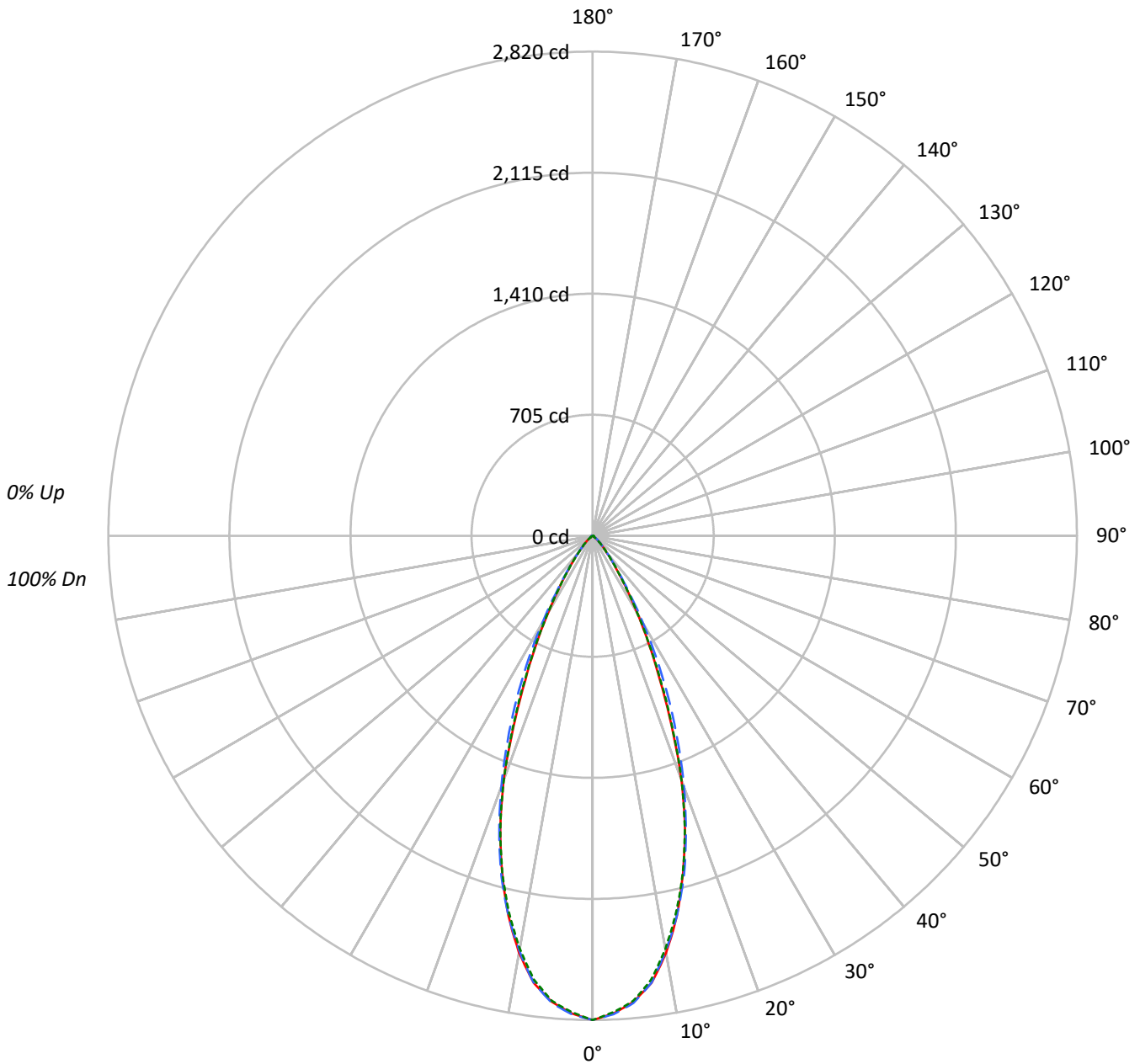
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1391428	1391428	1391428
5°	1349596	1352864	1346773
10°	1235349	1230389	1223025
15°	1039102	1048755	1037416
20°	794625	815731	793312
25°	504626	568915	514424
30°	293502	331329	298629
35°	155148	165026	155630
40°	81857	85593	81857
45°	45770	47515	46329
50°	21414	27094	21414
55°	7741	14795	8429
60°	8881	8881	8881
65°	9573	10507	9573
70°	11828	10674	11828
75°	10865	10865	10865
80°	11649	9376	11649
85°	9057	9057	9057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.7	16.5
10°-20°	560.5	36.6
20°-30°	452.7	29.6
30°-40°	178.9	11.7
40°-50°	54.9	3.6
50°-60°	14.1	0.9
60°-70°	8.6	0.6
70°-80°	6.3	0.4
80°-90°	1.9	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°	1265.0	82.7
0°-40°	1443.9	94.4
0°-60°	1513.0	98.9
0°-90°	1529.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1529.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2820	2820	2820	2820	2820	
5°	2725	2730	2732	2726	2719	252
15°	2034	2040	2053	2045	2031	559
25°	927	971	1045	989	945	432
35°	258	265	274	266	258	173
45°	66	66	68	67	66	54
55°	9	12	17	12	10	11
65°	8	9	9	9	8	8
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°	2820.3	2820.3	2820.3	2820.3	2820.3
2.5°	2785.0	2786.6	2789.1	2785.8	2777.6
5°	2725.1	2730.0	2731.7	2725.9	2719.4
7.5°	2626.7	2620.9	2625.8	2616.0	2607.8
10°	2465.9	2458.5	2456.0	2441.3	2441.3
12.5°	2267.4	2264.9	2266.5	2259.2	2247.7
15°	2034.4	2040.1	2053.3	2045.1	2031.1
17.5°	1787.5	1795.7	1807.2	1804.7	1785.8
20°	1513.5	1537.3	1553.7	1538.1	1511.0
22.5°	1201.8	1252.6	1294.5	1261.7	1217.4
25°	927.0	971.3	1045.1	989.3	945.0
27.5°	703.0	735.0	802.3	747.3	717.0
30°	515.2	534.8	581.6	545.5	524.2
32.5°	368.3	382.3	402.0	380.6	370.0
35°	257.6	265.0	274.0	265.8	258.4
37.5°	181.3	183.8	190.3	183.8	180.5
40°	127.1	128.0	132.9	128.8	127.1
42.5°	91.9	91.9	94.3	92.7	91.9
45°	65.6	66.4	68.1	67.3	66.4
47.5°	46.8	48.4	48.4	49.2	45.9
50°	27.9	34.5	35.3	34.5	27.9
52.5°	14.8	20.5	25.4	20.5	14.8
55°	9.0	12.3	17.2	12.3	9.8
57.5°	9.0	9.0	11.5	9.8	9.0
60°	9.0	9.0	9.0	9.0	9.0
62.5°	9.0	9.0	9.0	9.0	9.0
65°	8.2	9.0	9.0	9.0	8.2
67.5°	8.2	8.2	8.2	8.2	8.2
70°	8.2	8.2	7.4	8.2	8.2
72.5°	7.4	7.4	6.6	7.4	7.4
75°	5.7	5.7	5.7	5.7	5.7
77.5°	4.9	4.9	4.9	4.9	4.9
80°	4.1	4.1	3.3	4.1	4.1
82.5°	2.5	2.5	2.5	2.5	2.5
85°	1.6	1.6	1.6	1.6	1.6
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°







(END OF REPORT)