

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: P284087

Luminaire Tested: **LDA2B209027D010 EU2B20WFL559027 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284087
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: LDA2B209027D010 EU2B20WFL559027 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: 1336.7 lumens
Efficiency: N/A
Efficacy: 64.9 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

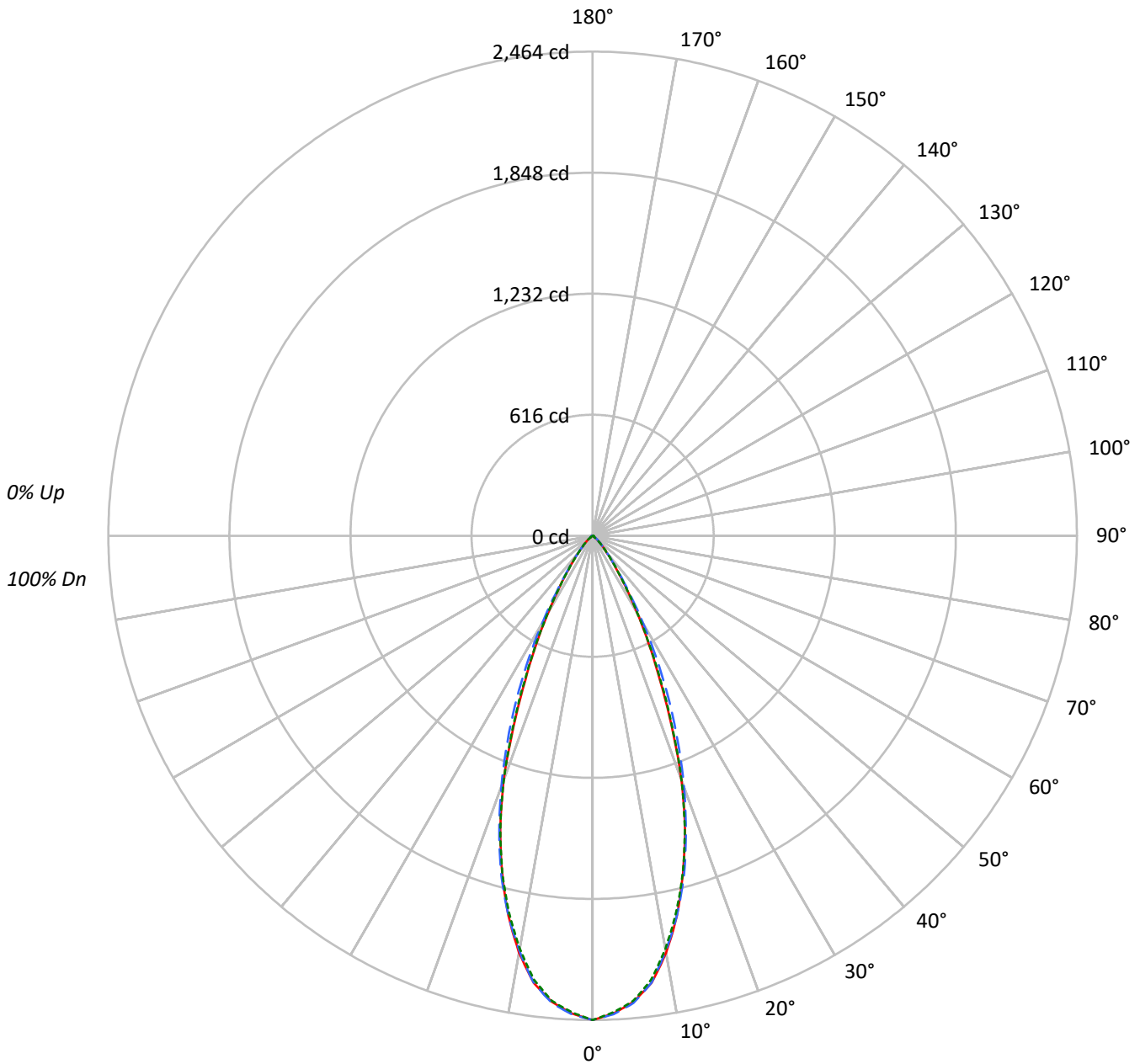
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284087

CATALOG NUMBER: LDA2B209027D010 EU2B20WFL559027 2LBALPINSQ1MW

Luminous Intensity Polar Plot





TEST NUMBER: P284087

CATALOG NUMBER: LDA2B209027D010 EU2B20WFL559027 2LBALPINSQ1MW

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°	1215791	1215791	1215791
5°	1179231	1182104	1176755
10°	1079396	1075087	1068625
15°	907937	916365	906456
20°	694345	712773	693190
25°	440935	497114	449482
30°	256415	289514	260916
35°	135574	144187	135996
40°	71553	74773	71553
45°	39979	41514	40537
50°	18728	23640	18728
55°	6795	12988	7397
60°	7795	7795	7795
65°	8405	9222	8405
70°	10386	9376	10386
75°	9531	9531	9531
80°	10228	8239	10228
85°	7925	7925	7925



TEST NUMBER: P284087

CATALOG NUMBER: LDA2B209027D010 EU2B20WFL559027 2LBALPINSQ1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.0	16.5
10°-20°	489.8	36.6
20°-30°	395.6	29.6
30°-40°	156.3	11.7
40°-50°	48.0	3.6
50°-60°	12.4	0.9
60°-70°	7.5	0.6
70°-80°	5.5	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°	1105.3	82.7
0°-40°	1261.6	94.4
0°-60°	1322.0	98.9
0°-90°	1336.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1336.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2464	2464	2464	2464	2464	
5°	2381	2385	2387	2382	2376	220
15°	1778	1783	1794	1787	1775	488
25°	810	849	913	864	826	377
35°	225	232	239	232	226	151
45°	57	58	60	59	58	47
55°	8	11	15	11	9	10
65°	7	8	8	8	7	7
75°	5	5	5	5	5	6
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



TEST NUMBER: P284087

CATALOG NUMBER: LDA2B209027D010 EU2B20WFL559027 2LBALPINSQ1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2464.3	2464.3	2464.3	2464.3	2464.3
2.5°	2433.5	2434.9	2437.0	2434.2	2427.0
5°	2381.1	2385.4	2386.9	2381.9	2376.1
7.5°	2295.1	2290.1	2294.4	2285.8	2278.6
10°	2154.6	2148.2	2146.0	2133.1	2133.1
12.5°	1981.2	1979.0	1980.5	1974.0	1964.0
15°	1777.6	1782.6	1794.1	1786.9	1774.7
17.5°	1561.9	1569.0	1579.1	1576.9	1560.4
20°	1322.5	1343.2	1357.6	1344.0	1320.3
22.5°	1050.1	1094.5	1131.1	1102.4	1063.7
25°	810.0	848.7	913.2	864.4	825.7
27.5°	614.3	642.2	701.0	653.0	626.5
30°	450.1	467.3	508.2	476.7	458.0
32.5°	321.8	334.0	351.2	332.6	323.3
35°	225.1	231.5	239.4	232.2	225.8
37.5°	158.4	160.6	166.3	160.6	157.7
40°	111.1	111.8	116.1	112.5	111.1
42.5°	80.3	80.3	82.4	81.0	80.3
45°	57.3	58.1	59.5	58.8	58.1
47.5°	40.9	42.3	42.3	43.0	40.1
50°	24.4	30.1	30.8	30.1	24.4
52.5°	12.9	17.9	22.2	17.9	12.9
55°	7.9	10.8	15.1	10.8	8.6
57.5°	7.9	7.9	10.0	8.6	7.9
60°	7.9	7.9	7.9	7.9	7.9
62.5°	7.9	7.9	7.9	7.9	7.9
65°	7.2	7.9	7.9	7.9	7.2
67.5°	7.2	7.2	7.2	7.2	7.2
70°	7.2	7.2	6.5	7.2	7.2
72.5°	6.5	6.5	5.7	6.5	6.5
75°	5.0	5.0	5.0	5.0	5.0
77.5°	4.3	4.3	4.3	4.3	4.3
80°	3.6	3.6	2.9	3.6	3.6
82.5°	2.2	2.2	2.2	2.2	2.2
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



Report Generated By E9808895 / USPTCWHP6082093





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







(END OF REPORT)