

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: P284082

Luminaire Tested: **LDA2B209024D010 EU2B20WFL559024 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284082
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: LDA2B209024D010 EU2B20WFL559024 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1193.6 lumens
Efficiency: N/A
Efficacy: 57.9 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

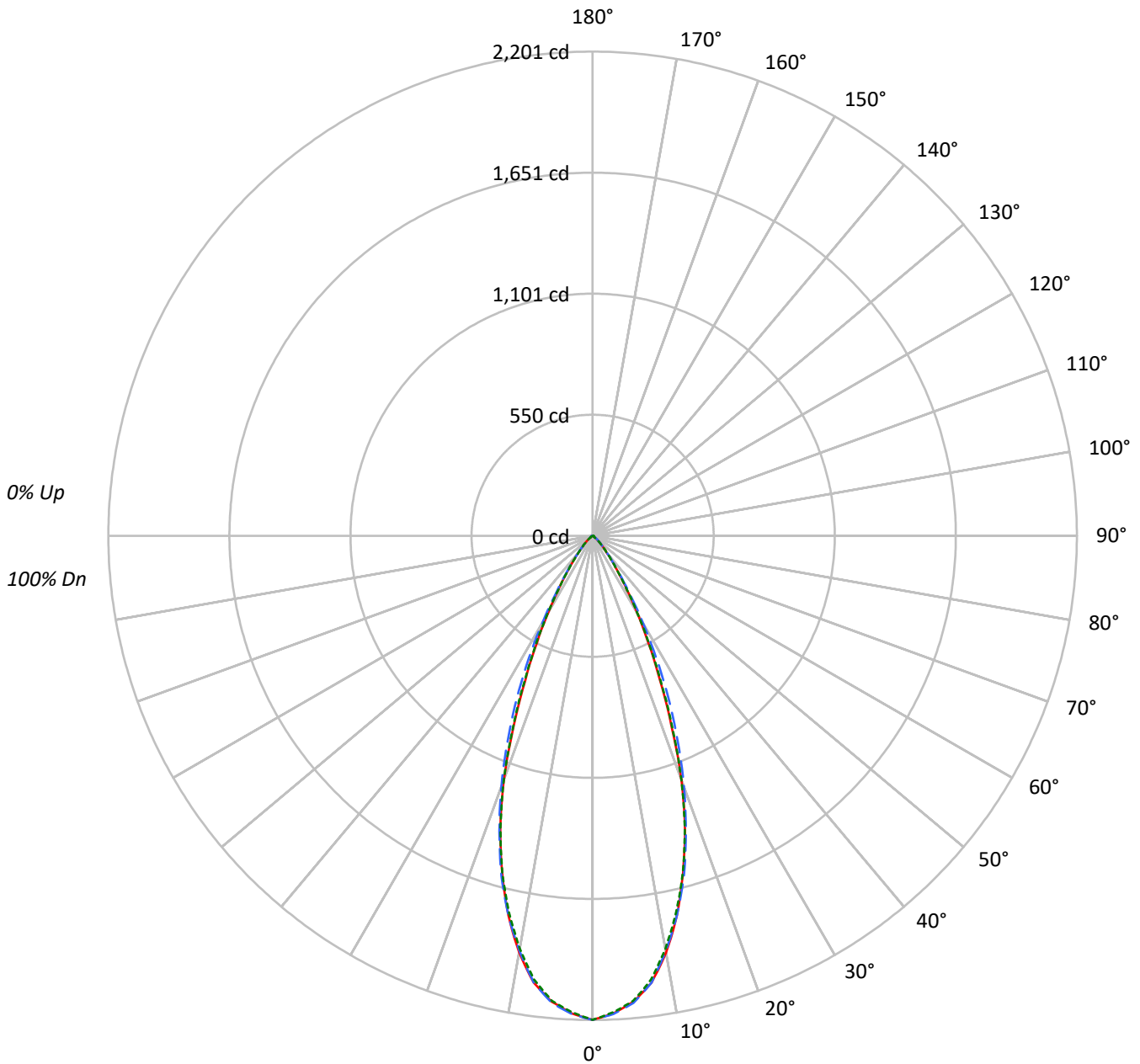
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1085741	1085741	1085741
5°	1053092	1055667	1050913
10°	963972	960114	954353
15°	810841	818349	809513
20°	620054	636540	619057
25°	393739	443929	401414
30°	229013	258523	233001
35°	121059	128768	121420
40°	63889	66787	63889
45°	35723	37049	36142
50°	16732	21107	16732
55°	6021	11526	6623
60°	6907	6907	6907
65°	7471	8172	7471
70°	9232	8366	9232
75°	8578	8578	8578
80°	9092	7387	9092
85°	7359	7359	7359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.4	16.5
10°-20°	437.4	36.6
20°-30°	353.2	29.6
30°-40°	139.6	11.7
40°-50°	42.9	3.6
50°-60°	11.0	0.9
60°-70°	6.7	0.6
70°-80°	4.9	0.4
80°-90°	1.4	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°	987.1	82.7
0°-40°	1126.7	94.4
0°-60°	1180.6	98.9
0°-90°	1193.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1193.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2201	2201	2201	2201	2201	
5°	2126	2130	2132	2127	2122	197
15°	1588	1592	1602	1596	1585	436
25°	723	758	816	772	737	337
35°	201	207	214	207	202	135
45°	51	52	53	52	52	42
55°	7	10	13	10	8	9
65°	6	7	7	7	6	7
75°	4	4	4	4	4	5
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2200.7	2200.7	2200.7	2200.7	2200.7
2.5°	2173.2	2174.5	2176.4	2173.8	2167.4
5°	2126.4	2130.3	2131.6	2127.1	2122.0
7.5°	2049.6	2045.2	2049.0	2041.3	2034.9
10°	1924.2	1918.4	1916.5	1905.0	1905.0
12.5°	1769.3	1767.3	1768.6	1762.9	1753.9
15°	1587.5	1592.0	1602.2	1595.8	1584.9
17.5°	1394.8	1401.2	1410.2	1408.2	1393.5
20°	1181.0	1199.6	1212.4	1200.2	1179.1
22.5°	937.8	977.4	1010.1	984.5	949.9
25°	723.3	757.9	815.5	772.0	737.4
27.5°	548.6	573.5	626.0	583.1	559.5
30°	402.0	417.4	453.8	425.7	409.0
32.5°	287.4	298.3	313.7	297.0	288.7
35°	201.0	206.8	213.8	207.4	201.6
37.5°	141.5	143.4	148.5	143.4	140.8
40°	99.2	99.9	103.7	100.5	99.2
42.5°	71.7	71.7	73.6	72.3	71.7
45°	51.2	51.8	53.1	52.5	51.8
47.5°	36.5	37.8	37.8	38.4	35.8
50°	21.8	26.9	27.5	26.9	21.8
52.5°	11.5	16.0	19.8	16.0	11.5
55°	7.0	9.6	13.4	9.6	7.7
57.5°	7.0	7.0	9.0	7.7	7.0
60°	7.0	7.0	7.0	7.0	7.0
62.5°	7.0	7.0	7.0	7.0	7.0
65°	6.4	7.0	7.0	7.0	6.4
67.5°	6.4	6.4	6.4	6.4	6.4
70°	6.4	6.4	5.8	6.4	6.4
72.5°	5.8	5.8	5.1	5.8	5.8
75°	4.5	4.5	4.5	4.5	4.5
77.5°	3.8	3.8	3.8	3.8	3.8
80°	3.2	3.2	2.6	3.2	3.2
82.5°	1.9	1.9	1.9	1.9	1.9
85°	1.3	1.3	1.3	1.3	1.3
87.5°	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)