

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: P284080

Luminaire Tested: **LDA2B209024D010 EU2B20WFL559024 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284080
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 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: 1310.7 lumens
Efficiency: N/A
Efficacy: 63.6 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

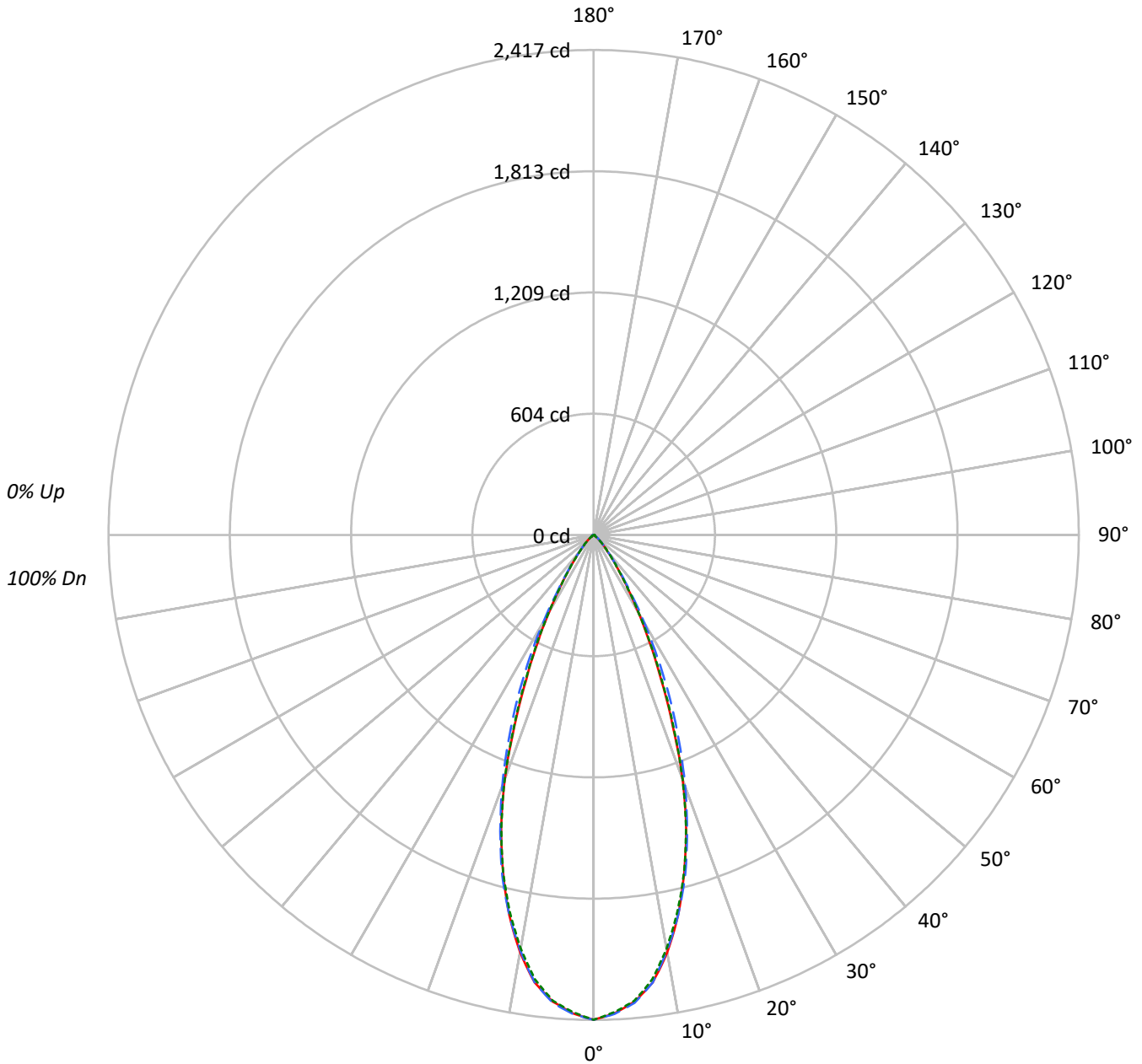
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100	100		
	1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	94	94	94		
	2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89	94	92	90	89	89		
	3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84	90	87	85	84	84		
	4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79	86	83	81	79	79		
	5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75	82	79	76	75	75		
	6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71	78	75	72	71	71		
	7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67	76	72	69	67	67		
	8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64	72	68	65	64	64		
	9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61	69	65	62	61	61		
	10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58	66	62	60	58	58		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1192258	1192258	1192258
5°	1156400	1159223	1153974
10°	1058505	1054297	1047935
15°	890367	898641	888937
20°	680904	698965	679749
25°	432389	487478	440772
30°	251459	283931	255903
35°	132924	141416	133346
40°	70200	73356	70200
45°	39212	40677	39700
50°	18344	23180	18344
55°	6623	12730	7225
60°	7598	7598	7598
65°	8172	8989	8172
70°	10097	9088	10097
75°	9340	9340	9340
80°	9944	7955	9944
85°	7925	7925	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.7	16.5
10°-20°	480.3	36.6
20°-30°	387.9	29.6
30°-40°	153.3	11.7
40°-50°	47.1	3.6
50°-60°	12.1	0.9
60°-70°	7.3	0.6
70°-80°	5.4	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°	1083.9	82.7
0°-40°	1237.2	94.4
0°-60°	1296.4	98.9
0°-90°	1310.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1310.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2417	2417	2417	2417	2417	
5°	2335	2339	2341	2336	2330	216
15°	1743	1748	1759	1752	1740	479
25°	794	832	896	848	810	370
35°	221	227	235	228	221	148
45°	56	57	58	58	57	46
55°	8	10	15	10	8	10
65°	7	8	8	8	7	7
75°	5	5	5	5	5	5
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2416.6	2416.6	2416.6	2416.6	2416.6
2.5°	2386.4	2387.8	2389.9	2387.1	2380.0
5°	2335.0	2339.3	2340.7	2335.7	2330.1
7.5°	2250.7	2245.8	2250.0	2241.6	2234.5
10°	2112.9	2106.6	2104.5	2091.8	2091.8
12.5°	1942.8	1940.7	1942.1	1935.8	1926.0
15°	1743.2	1748.1	1759.4	1752.3	1740.4
17.5°	1531.6	1538.7	1548.5	1546.4	1530.2
20°	1296.9	1317.2	1331.3	1317.9	1294.7
22.5°	1029.8	1073.3	1109.2	1081.1	1043.1
25°	794.3	832.2	895.5	847.7	809.7
27.5°	602.4	629.8	687.4	640.3	614.3
30°	441.4	458.3	498.4	467.4	449.2
32.5°	315.6	327.6	344.4	326.1	317.0
35°	220.7	227.0	234.8	227.7	221.4
37.5°	155.3	157.5	163.1	157.5	154.6
40°	109.0	109.7	113.9	110.4	109.0
42.5°	78.7	78.7	80.8	79.4	78.7
45°	56.2	56.9	58.3	57.6	56.9
47.5°	40.1	41.5	41.5	42.2	39.4
50°	23.9	29.5	30.2	29.5	23.9
52.5°	12.7	17.6	21.8	17.6	12.7
55°	7.7	10.5	14.8	10.5	8.4
57.5°	7.7	7.7	9.8	8.4	7.7
60°	7.7	7.7	7.7	7.7	7.7
62.5°	7.7	7.7	7.7	7.7	7.7
65°	7.0	7.7	7.7	7.7	7.0
67.5°	7.0	7.0	7.0	7.0	7.0
70°	7.0	7.0	6.3	7.0	7.0
72.5°	6.3	6.3	5.6	6.3	6.3
75°	4.9	4.9	4.9	4.9	4.9
77.5°	4.2	4.2	4.2	4.2	4.2
80°	3.5	3.5	2.8	3.5	3.5
82.5°	2.1	2.1	2.1	2.1	2.1
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



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







(END OF REPORT)