

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: P281579

Luminaire Tested: **LDA2B208040D010 EU2B20SP158040 2LBASQC1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-6)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B208040D010 EU2B20SP158040 2LBASQC1MMS
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Cast Trim, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2107.8 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.31 / 0.29
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

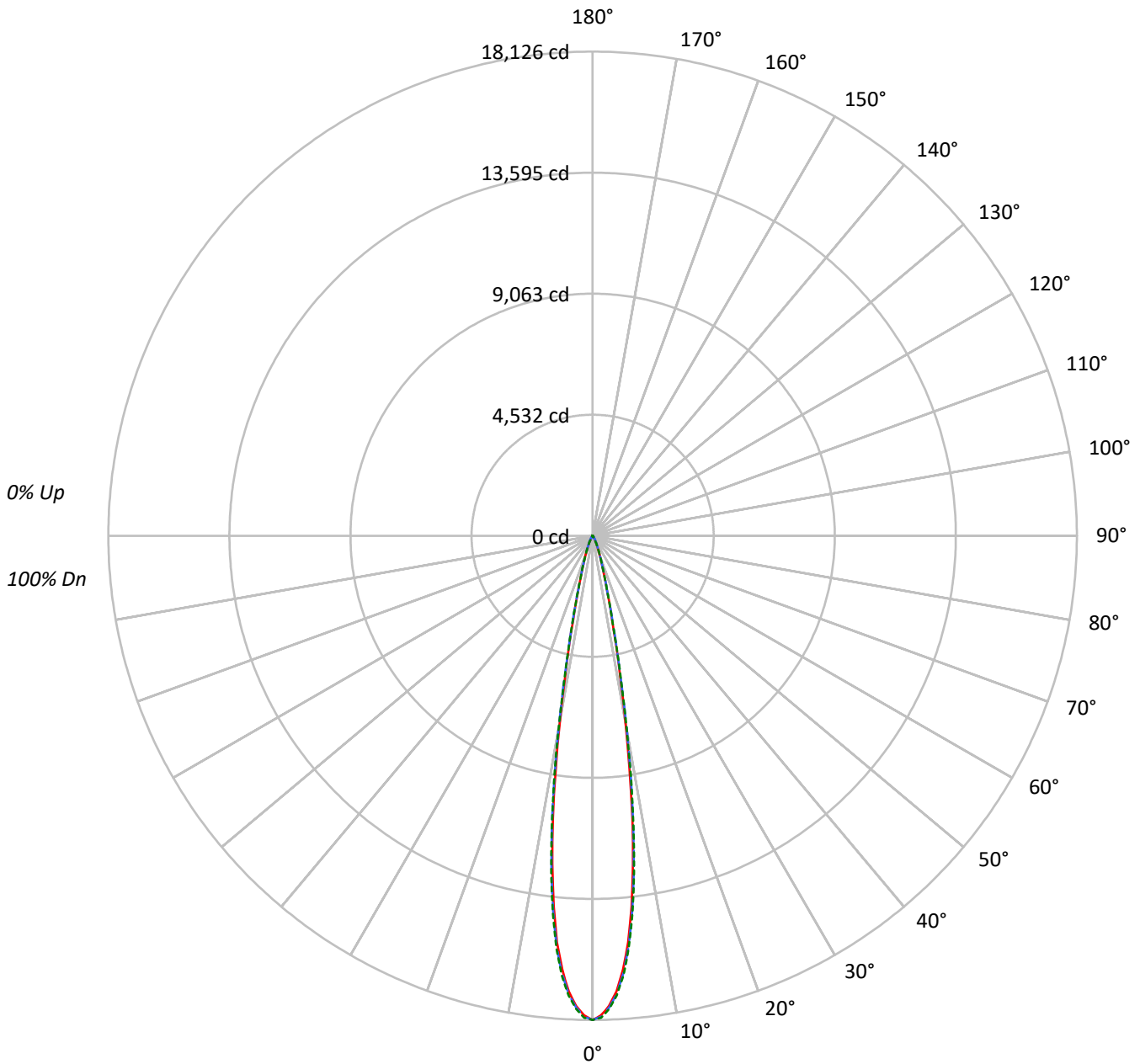
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	116	114	112	111	113	112	110	109	108	107	106	104	103	102	101	100	99	98	98	99	98																
2	113	109	107	105	111	108	105	103	105	103	101	102	100	99	99	98	97	96	96	97	96																
3	110	106	103	100	108	104	102	99	102	100	98	100	98	96	98	96	95	94	96	95	94																
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92	96	95	92																
5	105	100	96	94	103	99	96	93	98	95	93	96	94	92	95	93	91	90	95	93	90																
6	103	97	94	91	101	97	94	91	96	93	91	94	92	90	93	91	90	89	93	91	89																
7	100	95	92	89	100	95	91	89	94	91	89	93	90	88	92	90	88	87	92	90	87																
8	99	93	90	88	98	93	90	87	92	89	87	91	89	87	90	88	86	86	90	88	86																
9	97	91	88	86	96	91	88	86	90	88	86	90	87	85	89	87	85	84	89	87	84																
10	95	90	87	84	94	89	86	84	89	86	84	88	86	84	88	85	84	83	88	85	83																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8942676	8942676	8942676
5°	7568899	7648040	7681320
10°	3539322	3673432	3680596
15°	1036650	1051718	1051207
20°	416292	416817	417342
25°	185628	204463	190038
30°	78844	108411	71894
35°	36197	50291	33728
40°	11786	19643	10498
45°	0	7117	0
50°	0	0	0
55°	3527	1720	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	5682	0	0
85°	11321	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1197.9	56.8
10°-20°	678.9	32.2
20°-30°	177.3	8.4
30°-40°	45.7	2.2
40°-50°	4.5	0.2
50°-60°	1.4	0.1
60°-70°	0.2	0.0
70°-80°	1.5	0.1
80°-90°	0.4	0.0
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°	2054.1	97.5
0°-40°	2099.8	99.6
0°-60°	2105.8	99.9
0°-90°	2107.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2107.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18126	18126	18126	18126	18126	
5°	15283	15420	15443	15345	15510	1183
15°	2030	2057	2059	2036	2058	666
25°	341	370	376	358	349	170
35°	60	64	84	57	56	41
45°	0	4	10	1	0	3
55°	4	5	2	1	0	3
65°	0	0	0	0	0	1
75°	0	1	0	0	0	4
85°	2	0	0	0	0	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18126.0	18126.0	18126.0	18126.0	18126.0
1°	17956.0	18027.2	18005.9	17980.4	18051.7
2°	17609.9	17679.1	17673.0	17639.4	17722.9
3°	17076.6	17173.3	17173.3	17123.4	17227.2
4°	16281.6	16429.2	16443.5	16373.2	16502.5
5°	15283.1	15419.5	15442.9	15345.2	15510.1
6°	13930.4	14116.6	14169.6	14056.6	14225.6
7°	12376.1	12571.5	12652.0	12525.7	12715.1
8°	10699.7	10840.2	10936.9	10792.3	10984.7
9°	8823.8	9026.3	9114.9	8974.4	9161.7
10°	7064.9	7251.2	7332.6	7299.0	7346.9
11°	5487.3	5652.2	5707.1	5661.3	5683.7
12°	4296.4	4362.5	4398.2	4367.6	4382.9
13°	3262.2	3350.8	3367.1	3353.8	3361.0
14°	2547.7	2590.4	2608.8	2602.7	2605.7
15°	2029.6	2057.1	2059.1	2035.7	2058.1
16°	1634.7	1656.1	1665.2	1640.8	1670.3
17°	1339.5	1356.8	1367.0	1342.6	1354.8
18°	1102.3	1115.6	1129.8	1108.4	1126.8
19°	925.2	933.4	934.4	928.3	933.4
20°	792.9	788.8	793.9	782.7	794.9
22.5°	522.2	532.3	544.6	531.3	536.4
25°	341.0	369.5	375.6	358.3	349.1
26°	280.9	317.6	333.9	306.4	276.9
27°	233.1	259.6	280.9	244.3	220.9
28°	204.6	227.0	248.4	213.7	186.3
29°	171.0	193.4	230.0	190.3	173.0
30°	138.4	154.7	190.3	144.5	126.2
32.5°	78.4	91.6	123.2	85.5	70.2
35°	60.1	64.1	83.5	57.0	56.0
37.5°	51.9	46.8	65.1	46.8	37.7
40°	18.3	27.5	30.5	20.4	16.3
42.5°	8.1	8.1	13.2	4.1	4.1
45°	0.0	4.1	10.2	1.0	0.0
47.5°	0.0	0.0	2.0	0.0	0.0
50°	0.0	2.0	0.0	0.0	0.0
52.5°	2.0	0.0	0.0	0.0	0.0
55°	4.1	5.1	2.0	1.0	0.0
57.5°	6.1	5.1	2.0	2.0	2.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	2.0	1.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	1.0	0.0	0.0	0.0
77.5°	10.2	2.0	3.1	2.0	4.1
80°	2.0	0.0	0.0	0.0	0.0
82.5°	4.1	0.0	0.0	0.0	0.0
85°	2.0	0.0	0.0	0.0	0.0
87.5°	0.0	1.0	0.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







70°	0.0	0.0	0.0	0.0	0.0
72.5°	4.1	3.1	0.0	0.0	4.1



(END OF REPORT)