

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: P282135

Luminaire Tested: **LDA2B058040D010 EU2B05NFL258040 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B058040D010 EU2B05NFL258040 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 760.4 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

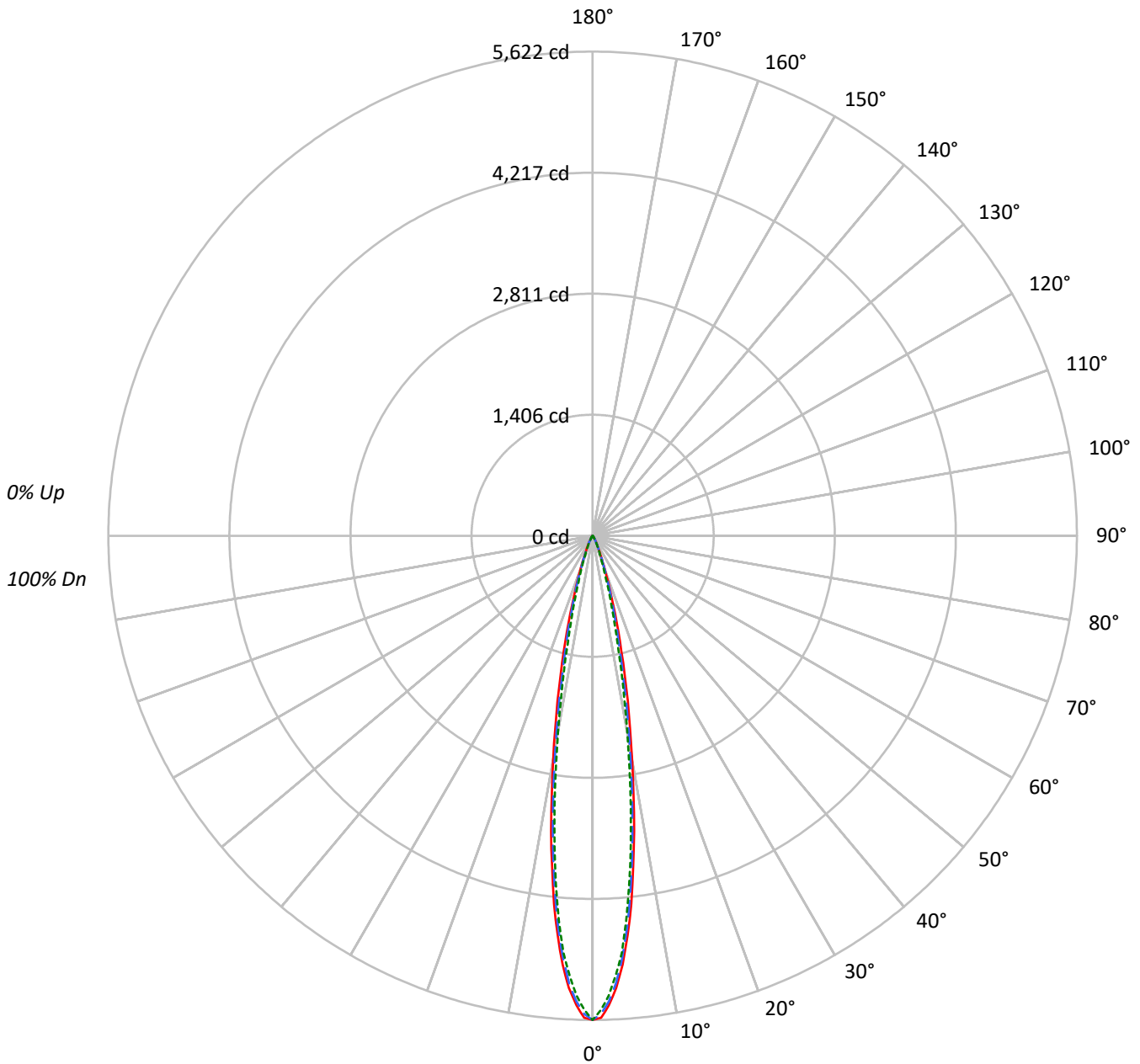
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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				100															
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95				95															
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92				92															
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90				90															
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88				88															
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86				86															
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84				84															
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83				83															
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81				81															
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79				79															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2773927	2773927	2773927
5°	2308195	2265851	2220140
10°	1322117	1240659	1157898
15°	588045	522258	437675
20°	213318	200559	158925
25°	81927	76483	65868
30°	35320	32871	29168
35°	16743	16743	13853
40°	8372	8630	6956
45°	4814	4535	4256
50°	3300	2993	2993
55°	2580	1892	2236
60°	2171	1283	1677
65°	1518	1051	1518
70°	1298	577	1298
75°	762	762	762
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.7	48.1
10°-20°	295.9	38.9
20°-30°	71.4	9.4
30°-40°	18.2	2.4
40°-50°	5.4	0.7
50°-60°	2.3	0.3
60°-70°	1.1	0.1
70°-80°	0.3	0.0
80°-90°	0.0	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°	733.0	96.4
0°-40°	751.2	98.8
0°-60°	758.9	99.8
0°-90°	760.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	760.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5622	5622	5622	5622	5622	
5°	4661	4618	4575	4535	4483	377
15°	1151	1124	1022	921	857	328
25°	150	151	140	128	121	78
35°	28	28	28	25	23	19
45°	7	7	6	6	6	6
55°	3	3	2	2	3	3
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5622.5	5622.5	5622.5	5622.5	5622.5
1°	5597.3	5558.3	5553.5	5577.8	5506.3
2°	5454.2	5426.5	5410.4	5424.7	5343.6
3°	5257.8	5230.9	5201.8	5202.3	5111.6
4°	4990.2	4969.0	4920.0	4905.2	4852.8
5°	4660.7	4617.7	4575.2	4535.4	4482.9
6°	4296.4	4240.9	4180.2	4120.8	4067.0
7°	3868.0	3831.1	3750.9	3669.8	3624.3
8°	3465.2	3405.7	3312.1	3210.6	3172.0
9°	3032.0	2989.5	2881.9	2764.0	2725.4
10°	2639.1	2594.9	2476.5	2345.1	2311.3
11°	2270.5	2228.9	2105.7	1967.8	1931.8
12°	1958.7	1899.7	1758.4	1638.7	1603.6
13°	1648.2	1607.9	1473.9	1355.5	1287.5
14°	1384.2	1350.8	1229.3	1125.3	1053.3
15°	1151.3	1124.0	1022.5	921.0	856.9
16°	944.4	927.5	847.3	749.3	696.8
17°	766.2	750.6	699.4	609.3	565.0
18°	618.8	616.6	574.1	496.1	456.6
19°	509.1	508.2	469.2	403.7	371.2
20°	406.3	412.0	382.0	324.8	302.7
21°	331.3	334.3	310.5	267.1	247.2
22°	269.7	271.9	256.3	220.7	209.9
23°	221.2	222.5	209.4	183.0	173.5
24°	182.1	183.0	171.3	152.6	144.4
25°	150.5	151.3	140.5	127.5	121.0
26°	124.9	125.8	116.2	107.1	100.6
27°	103.6	105.4	95.8	90.2	83.3
28°	88.5	88.9	80.2	76.8	70.2
29°	72.4	75.0	67.6	64.6	59.8
30°	62.0	63.3	57.7	55.5	51.2
32.5°	41.2	42.1	39.5	37.7	34.3
35°	27.8	28.2	27.8	25.2	23.0
37.5°	19.1	19.1	19.5	16.5	15.6
40°	13.0	13.0	13.4	11.3	10.8
42.5°	9.5	9.5	9.1	7.8	7.8
45°	6.9	6.9	6.5	6.1	6.1
47.5°	5.6	5.2	4.8	4.8	4.8
50°	4.3	4.3	3.9	3.5	3.9
52.5°	3.5	3.5	3.0	3.0	3.0
55°	3.0	2.6	2.2	2.2	2.6
57.5°	2.2	2.2	1.7	1.7	2.2
60°	2.2	1.7	1.3	1.7	1.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.3	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.4	0.4	0.9
72.5°	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.0	0.0	0.4
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	1.7	1.3	1.3	1.3	1.3
65°	1.3	1.3	0.9	0.9	1.3



(END OF REPORT)