

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: P283724

Luminaire Tested: **LDA2B208035D010 EU2B20FL408035 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B208035D010 EU2B20FL408035 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1782.0 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

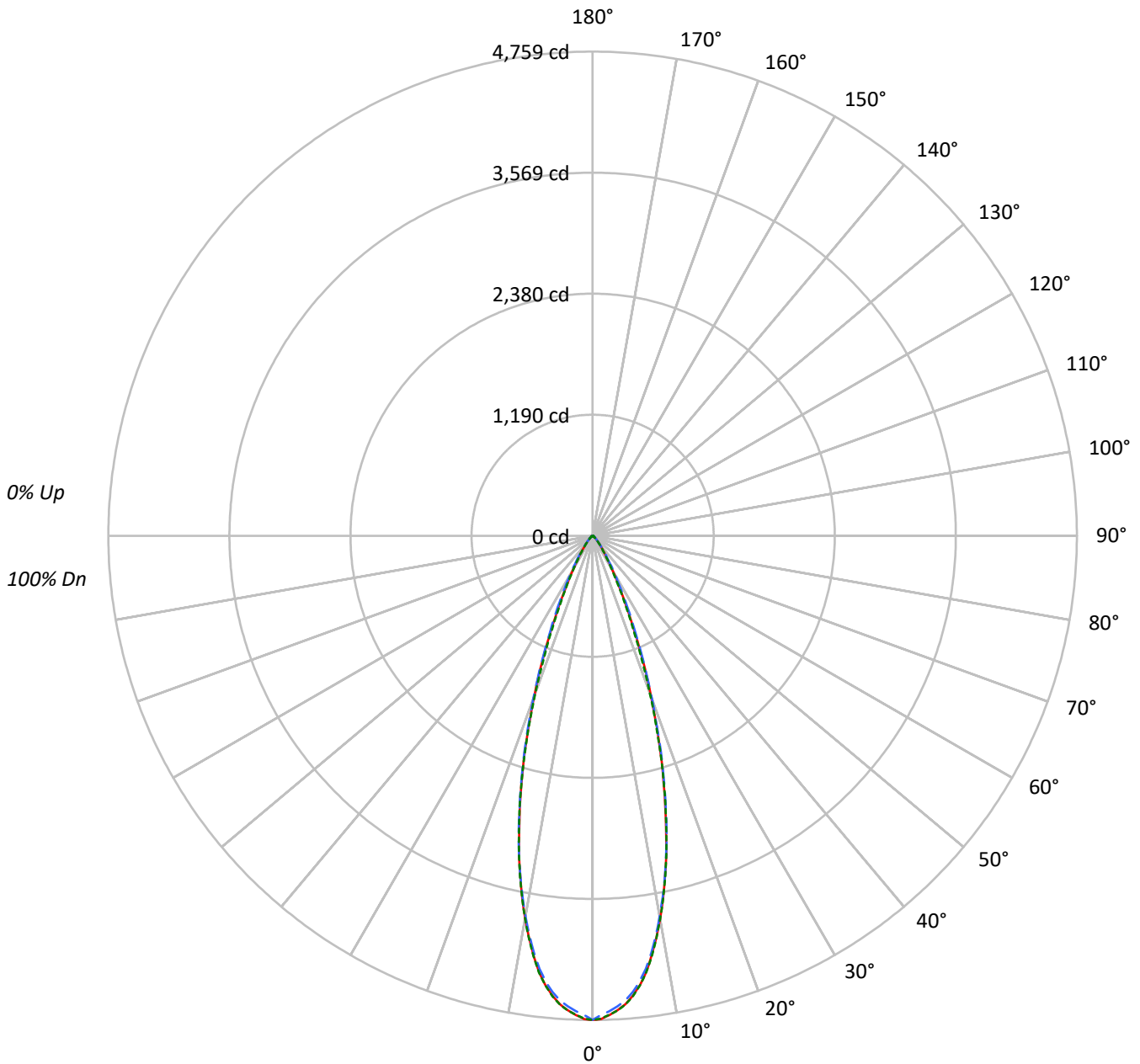
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2347859	2347859	2347859
5°	2246933	2230094	2250399
10°	1914267	1902243	1916271
15°	1410939	1420133	1415536
20°	880781	897057	861355
25°	454980	488186	432117
30°	218132	250035	207878
35°	112627	124673	105400
40°	63116	66336	59896
45°	38375	38375	36979
50°	19956	24561	19956
55°	10322	16343	11182
60°	11841	11841	11841
65°	12841	12841	12841
70°	15867	14425	15867
75°	15250	15250	15250
80°	14206	14206	14206
85°	11321	11321	11321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.3	23.0
10°-20°	751.9	42.2
20°-30°	407.6	22.9
30°-40°	130.9	7.3
40°-50°	44.6	2.5
50°-60°	15.6	0.9
60°-70°	11.4	0.6
70°-80°	8.3	0.5
80°-90°	2.4	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°	1568.9	88.0
0°-40°	1699.7	95.4
0°-60°	1760.0	98.8
0°-90°	1782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1782.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4759	4759	4759	4759	4759	
5°	4537	4509	4503	4548	4544	410
15°	2762	2785	2780	2793	2771	749
25°	836	874	897	835	794	401
35°	187	195	207	188	175	126
45°	55	56	55	55	53	44
55°	12	15	19	15	13	13
65°	11	12	11	12	11	11
75°	8	8	8	8	8	8
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4758.9	4758.9	4758.9	4758.9	4758.9
1°	4750.9	4716.9	4711.9	4755.9	4745.9
2°	4712.9	4680.9	4675.9	4719.9	4710.9
3°	4670.9	4642.0	4632.0	4677.9	4671.9
4°	4615.0	4588.0	4579.0	4625.0	4620.0
5°	4537.0	4509.0	4503.0	4548.0	4544.0
6°	4441.0	4418.0	4407.0	4452.0	4444.0
7°	4321.0	4300.0	4288.0	4321.0	4325.0
8°	4165.1	4155.1	4141.1	4174.1	4174.1
9°	3999.1	3990.1	3975.1	4005.1	4005.1
10°	3821.1	3815.1	3797.1	3825.1	3825.1
11°	3626.2	3623.2	3610.2	3633.2	3633.2
12°	3421.2	3428.2	3416.2	3436.2	3429.2
13°	3216.3	3213.3	3214.3	3229.3	3218.3
14°	2984.3	3002.3	3005.3	3014.3	2997.3
15°	2762.4	2785.4	2780.4	2793.4	2771.4
16°	2535.4	2561.4	2560.4	2563.4	2542.4
17°	2323.5	2338.5	2339.5	2336.5	2310.5
18°	2097.5	2118.5	2118.5	2113.5	2082.5
19°	1876.6	1892.6	1903.6	1892.6	1856.6
20°	1677.6	1688.6	1708.6	1680.6	1640.6
21°	1486.7	1496.7	1513.7	1480.7	1436.7
22°	1303.7	1316.7	1332.7	1294.7	1248.7
23°	1132.7	1162.7	1168.7	1116.7	1077.8
24°	975.8	1009.8	1019.8	966.8	925.8
25°	835.8	873.8	896.8	834.8	793.8
26°	714.8	751.8	779.8	717.8	678.8
27°	608.9	647.9	676.8	618.9	581.9
28°	517.9	555.9	585.9	531.9	496.9
29°	449.9	471.9	501.9	456.9	424.9
30°	382.9	406.9	438.9	392.9	364.9
32.5°	262.9	275.9	300.9	272.9	250.9
35°	187.0	195.0	207.0	188.0	175.0
37.5°	133.0	137.0	144.0	133.0	126.0
40°	98.0	100.0	103.0	97.0	93.0
42.5°	73.0	74.0	74.0	72.0	70.0
45°	55.0	56.0	55.0	55.0	53.0
47.5°	40.0	43.0	42.0	42.0	39.0
50°	26.0	32.0	32.0	31.0	26.0
52.5°	16.0	22.0	25.0	22.0	17.0
55°	12.0	15.0	19.0	15.0	13.0
57.5°	12.0	12.0	14.0	12.0	12.0
60°	12.0	12.0	12.0	12.0	12.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	<i>11.0</i>	11.0	11.0	11.0	11.0
70°	<i>11.0</i>	11.0	10.0	11.0	11.0
72.5°	<i>10.0</i>	10.0	9.0	10.0	9.0
75°	<i>8.0</i>	8.0	8.0	8.0	8.0
77.5°	<i>6.0</i>	6.0	6.0	6.0	6.0
80°	<i>5.0</i>	5.0	5.0	5.0	5.0
82.5°	<i>3.0</i>	3.0	3.0	4.0	3.0
85°	<i>2.0</i>	2.0	2.0	2.0	2.0
87.5°	<i>1.0</i>	1.0	1.0	1.0	1.0
90°	<i>0.0</i>	0.0	0.0	0.0	0.0



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







62.5°	12.0	12.0	12.0	12.0	12.0
65°	11.0	12.0	11.0	12.0	11.0



(END OF REPORT)