

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: P283518

Luminaire Tested: **LDA2B059040D010 EU2B05FL409040 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283518  
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: LDA2B059040D010 EU2B05FL409040 2LBALPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 544.9 lumens  
Efficiency: N/A  
Efficacy: 77.8 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

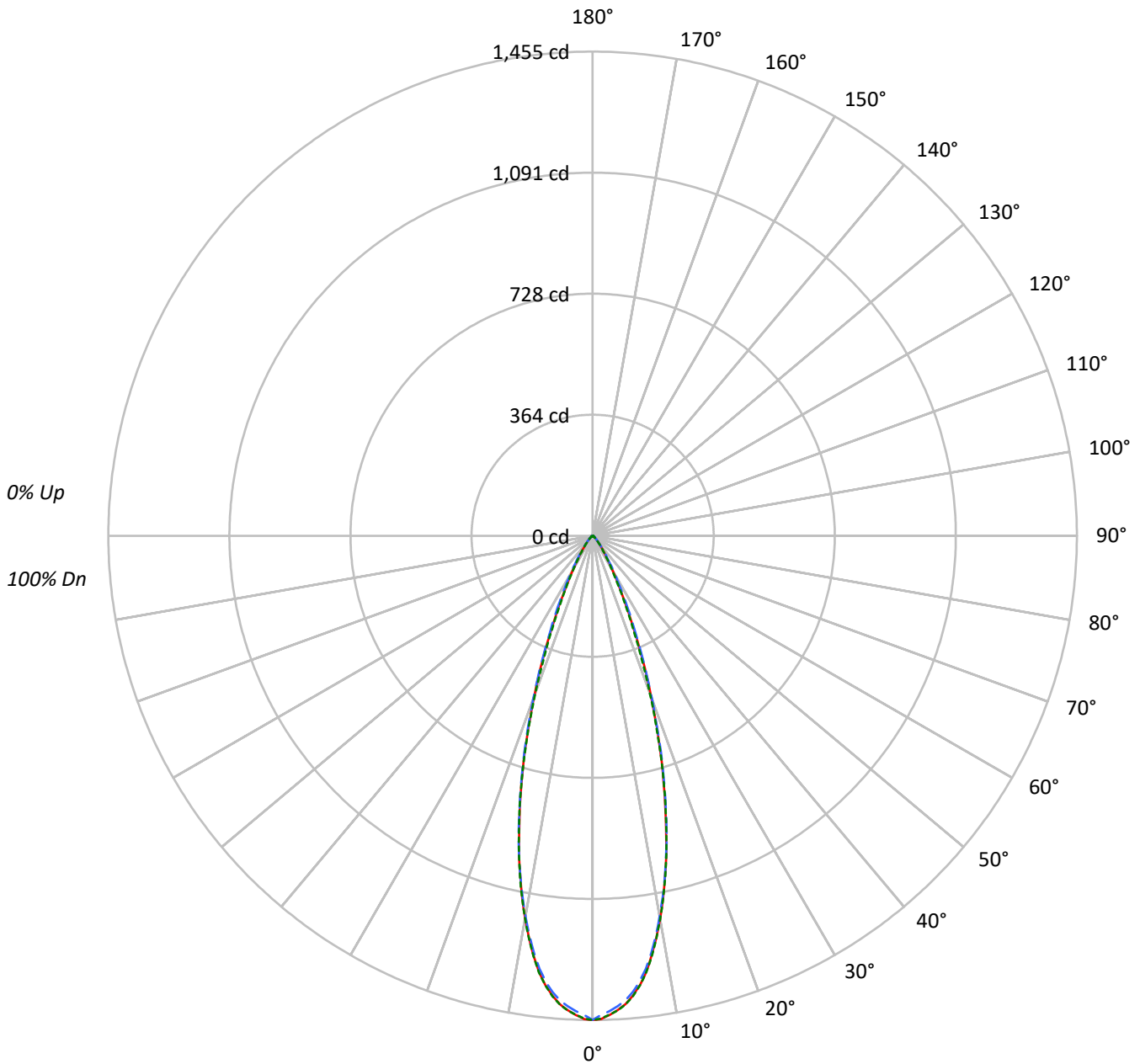
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	717841	717841	717841
5°	687006	681855	688046
10°	585286	581629	585888
15°	431393	434202	432772
20°	269285	274273	263352
25°	139085	149265	132117
30°	66710	76452	63577
35°	34451	38125	32222
40°	19321	20287	18291
45°	11722	11722	11303
50°	6064	7522	6064
55°	3183	4989	3441
60°	3651	3651	3651
65°	3969	3969	3969
70°	4904	4472	4904
75°	4575	4575	4575
80°	4262	4262	4262
85°	3396	3396	3396



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.2	23.0
10°-20°	229.9	42.2
20°-30°	124.6	22.9
30°-40°	40.0	7.3
40°-50°	13.6	2.5
50°-60°	4.8	0.9
60°-70°	3.5	0.6
70°-80°	2.5	0.5
80°-90°	0.7	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°	479.7	88.0
0°-40°	519.7	95.4
0°-60°	538.1	98.8
0°-90°	544.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	544.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1455	1455	1455	1455	1455	
5°	1387	1379	1377	1390	1389	125
15°	845	852	850	854	847	229
25°	256	267	274	255	243	122
35°	57	60	63	58	54	39
45°	17	17	17	17	16	13
55°	4	5	6	5	4	4
65°	3	4	3	4	3	3
75°	2	2	2	2	2	3
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°	1455.0	1455.0	1455.0	1455.0	1455.0
1°	1452.6	1442.2	1440.7	1454.1	1451.1
2°	1441.0	1431.2	1429.7	1443.1	1440.4
3°	1428.1	1419.3	1416.2	1430.3	1428.4
4°	1411.0	1402.8	1400.0	1414.1	1412.5
5°	1387.2	1378.6	1376.8	1390.5	1389.3
6°	1357.8	1350.8	1347.4	1361.2	1358.7
7°	1321.1	1314.7	1311.1	1321.1	1322.4
8°	1273.5	1270.4	1266.1	1276.2	1276.2
9°	1222.7	1220.0	1215.4	1224.5	1224.5
10°	1168.3	1166.5	1161.0	1169.5	1169.5
11°	1108.7	1107.8	1103.8	1110.8	1110.8
12°	1046.0	1048.2	1044.5	1050.6	1048.5
13°	983.4	982.4	982.8	987.3	984.0
14°	912.4	918.0	918.9	921.6	916.4
15°	844.6	851.6	850.1	854.1	847.3
16°	775.2	783.1	782.8	783.8	777.3
17°	710.4	715.0	715.3	714.4	706.4
18°	641.3	647.7	647.7	646.2	636.7
19°	573.8	578.6	582.0	578.6	567.6
20°	512.9	516.3	522.4	513.8	501.6
21°	454.5	457.6	462.8	452.7	439.3
22°	398.6	402.6	407.5	395.9	381.8
23°	346.3	355.5	357.3	341.4	329.5
24°	298.3	308.7	311.8	295.6	283.1
25°	255.5	267.2	274.2	255.2	242.7
26°	218.6	229.9	238.4	219.5	207.6
27°	186.2	198.1	206.9	189.2	177.9
28°	158.3	170.0	179.1	162.6	151.9
29°	137.6	144.3	153.5	139.7	129.9
30°	117.1	124.4	134.2	120.1	111.6
32.5°	80.4	84.4	92.0	83.5	76.7
35°	57.2	59.6	63.3	57.5	53.5
37.5°	40.7	41.9	44.0	40.7	38.5
40°	30.0	30.6	31.5	29.7	28.4
42.5°	22.3	22.6	22.6	22.0	21.4
45°	16.8	17.1	16.8	16.8	16.2
47.5°	12.2	13.1	12.8	12.8	11.9
50°	7.9	9.8	9.8	9.5	7.9
52.5°	4.9	6.7	7.6	6.7	5.2
55°	3.7	4.6	5.8	4.6	4.0
57.5°	3.7	3.7	4.3	3.7	3.7
60°	3.7	3.7	3.7	3.7	3.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	3.4	3.4	3.4	3.4	3.4
70°	3.4	3.4	3.1	3.4	3.4
72.5°	3.1	3.1	2.8	3.1	2.8
75°	2.4	2.4	2.4	2.4	2.4
77.5°	1.8	1.8	1.8	1.8	1.8
80°	1.5	1.5	1.5	1.5	1.5
82.5°	0.9	0.9	0.9	1.2	0.9
85°	0.6	0.6	0.6	0.6	0.6
87.5°	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	3.7	3.7	3.7	3.7	3.7
65°	3.4	3.7	3.4	3.7	3.4



(END OF REPORT)