

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: P283855

Luminaire Tested: **LDA2B059040D010 EU2B05WFL559040 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283855
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: LDA2B059040D010 EU2B05WFL559040 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 575.5 lumens
Efficiency: N/A
Efficacy: 82.2 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

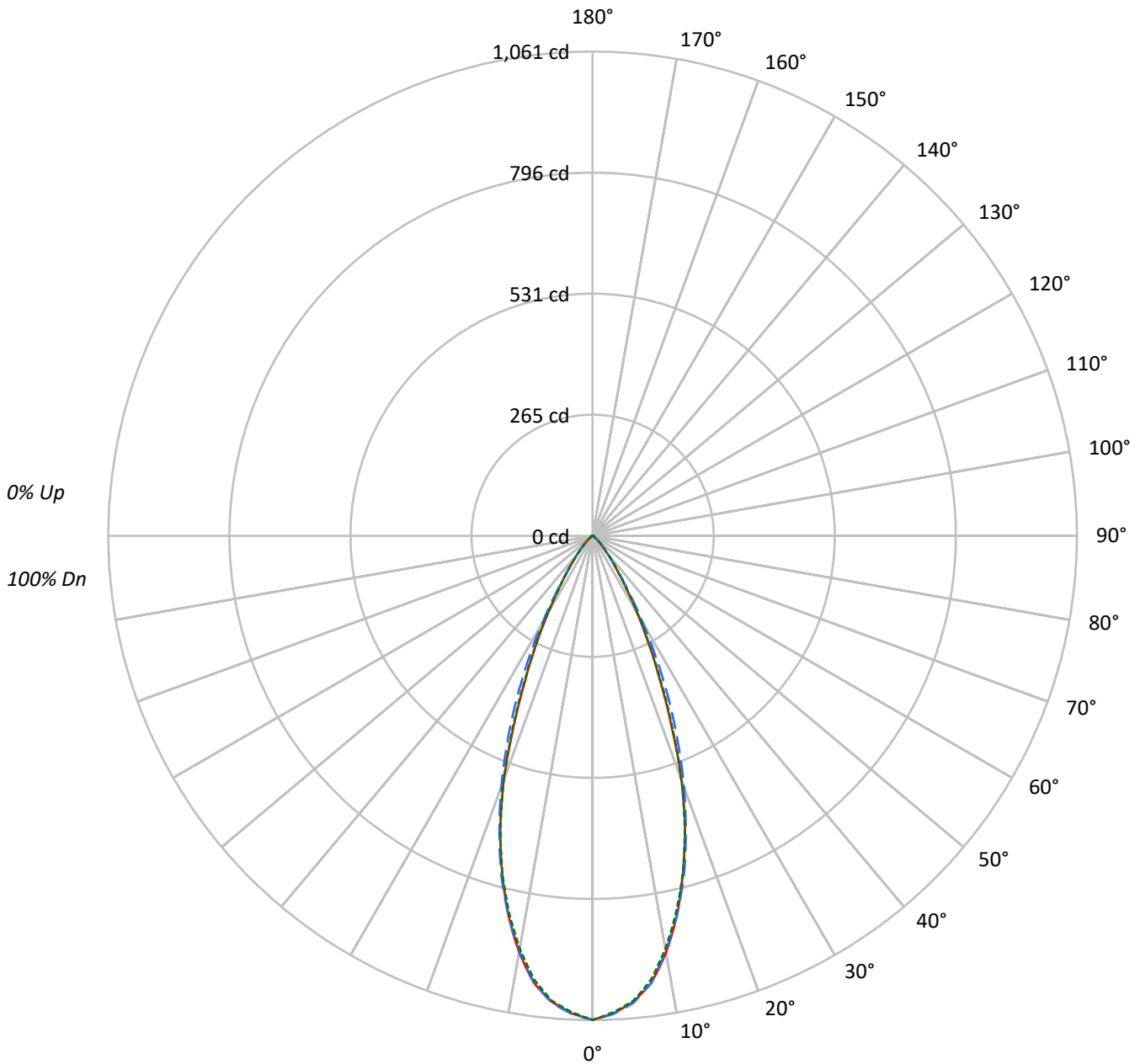
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283855

CATALOG NUMBER: LDA2B059040D010 EU2B05WFL559040 2LBALPINSQ1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P283855

CATALOG NUMBER: LDA2B059040D010 EU2B05WFL559040 2LBALPINSQ1MMS

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	523408	523408	523408
5°	507677	508915	506637
10°	464702	462849	460093
15°	390889	394515	390276
20°	298949	306877	298424
25°	189820	213990	193522
30°	110405	124647	112342
35°	58361	62095	58542
40°	30785	32202	30785
45°	17234	17862	17443
50°	8059	10208	8059
55°	2925	5591	3183
60°	3355	3355	3355
65°	3619	3969	3619
70°	4472	4039	4472
75°	4194	4194	4194
80°	4262	3409	4262
85°	3396	3396	3396



TEST NUMBER: P283855

CATALOG NUMBER: LDA2B059040D010 EU2B05WFL559040 2LBALPINSQ1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.7	16.5
10°-20°	210.9	36.6
20°-30°	170.3	29.6
30°-40°	67.3	11.7
40°-50°	20.7	3.6
50°-60°	5.3	0.9
60°-70°	3.2	0.6
70°-80°	2.4	0.4
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°	475.9	82.7
0°-40°	543.2	94.4
0°-60°	569.2	98.9
0°-90°	575.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	575.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1061	1061	1061	1061	1061	
5°	1025	1027	1028	1026	1023	95
15°	765	768	772	769	764	210
25°	349	365	393	372	356	162
35°	97	100	103	100	97	65
45°	25	25	26	25	25	20
55°	3	5	6	5	4	4
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P283855

CATALOG NUMBER: LDA2B059040D010 EU2B05WFL559040 2LBALPINSQ1MMS

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1060.9	1060.9	1060.9	1060.9	1060.9
2.5°	1047.7	1048.3	1049.2	1048.0	1044.9
5°	1025.1	1027.0	1027.6	1025.5	1023.0
7.5°	988.1	986.0	987.8	984.1	981.0
10°	927.6	924.9	923.9	918.4	918.4
12.5°	852.9	852.0	852.6	849.9	845.5
15°	765.3	767.5	772.4	769.3	764.1
17.5°	672.4	675.5	679.8	678.9	671.8
20°	569.4	578.3	584.5	578.6	568.4
22.5°	452.1	471.2	487.0	474.6	458.0
25°	348.7	365.4	393.1	372.2	355.5
27.5°	264.5	276.5	301.8	281.1	269.7
30°	193.8	201.2	218.8	205.2	197.2
32.5°	138.6	143.8	151.2	143.2	139.2
35°	96.9	99.7	103.1	100.0	97.2
37.5°	68.2	69.1	71.6	69.1	67.9
40°	47.8	48.1	50.0	48.4	47.8
42.5°	34.6	34.6	35.5	34.9	34.6
45°	24.7	25.0	25.6	25.3	25.0
47.5°	17.6	18.2	18.2	18.5	17.3
50°	10.5	13.0	13.3	13.0	10.5
52.5°	5.6	7.7	9.6	7.7	5.6
55°	3.4	4.6	6.5	4.6	3.7
57.5°	3.4	3.4	4.3	3.7	3.4
60°	3.4	3.4	3.4	3.4	3.4
62.5°	3.4	3.4	3.4	3.4	3.4
65°	3.1	3.4	3.4	3.4	3.1
67.5°	3.1	3.1	3.1	3.1	3.1
70°	3.1	3.1	2.8	3.1	3.1
72.5°	2.8	2.8	2.5	2.8	2.8
75°	2.2	2.2	2.2	2.2	2.2
77.5°	1.9	1.9	1.9	1.9	1.9
80°	1.5	1.5	1.2	1.5	1.5
82.5°	0.9	0.9	0.9	0.9	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



Report Generated By E9808895 / USPTCWHP6082093





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







(END OF REPORT)