

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: io LED

Report Number: P273377

Luminaire Tested: **0.03-5W-830-55-ID-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P273377  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-246-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: 0.03-5W-830-55-ID-STD-UNV-AN-3F0  
Description: iO LIGHTING SERIES .75 LINEAR LED LUMINAIRE, 55 DEGREE OPTIC.  
VERY HIGH OUTPUT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 728.2 lumens  
Efficiency: N/A  
Efficacy: 39.8 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 1.25 / 1.04  
Luminous Opening: Rectangular (W 2.92' x L: 0.06' x H: 0')  
CIE Type: Direct

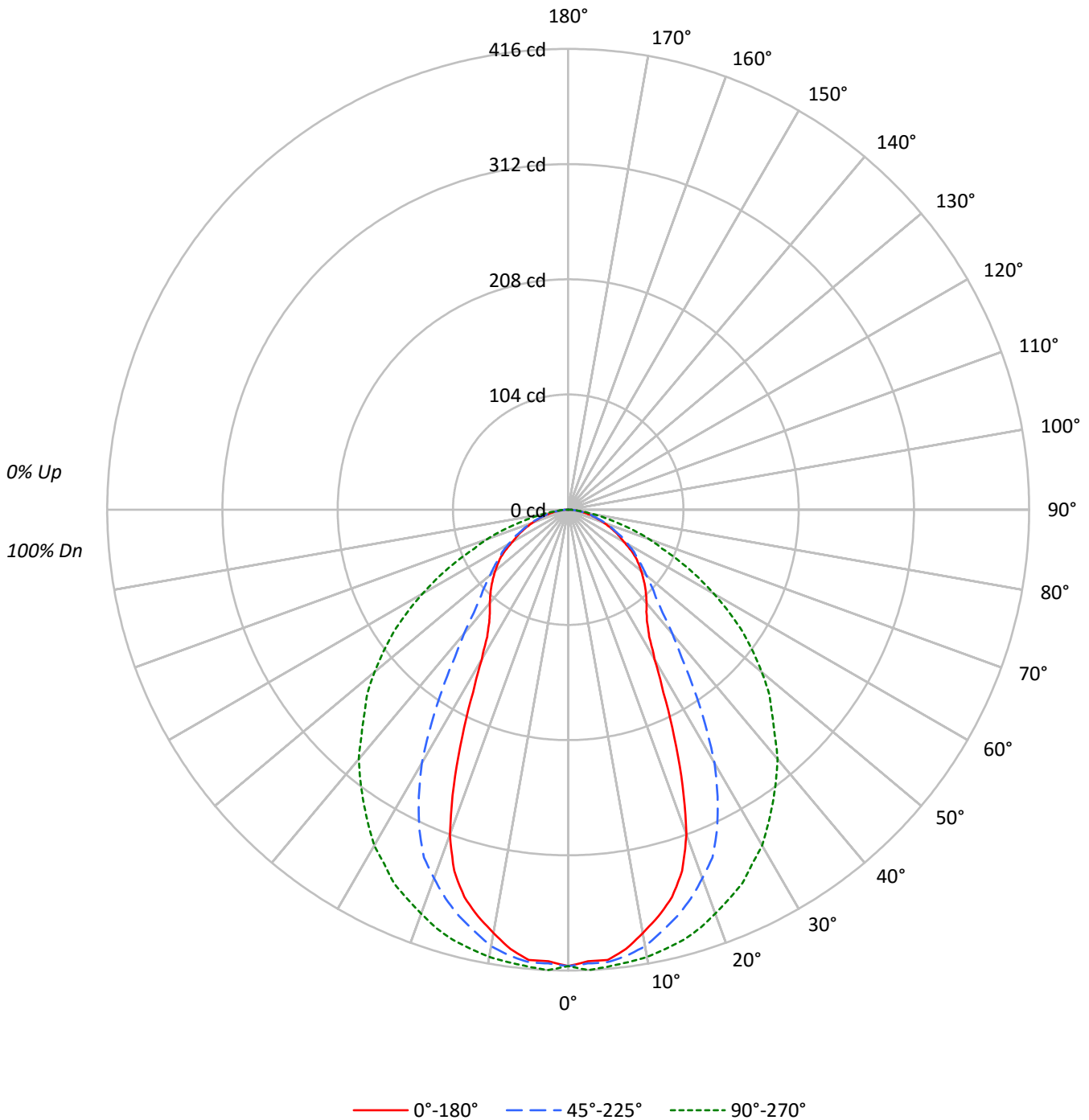
Input Watts (W): 18.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	85	77	72	92	83	76	71	80	74	70	77	73	69	75	71	67	65
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	49	60	54	48	59	53	48	57	52	48	46
7	70	58	50	44	69	57	49	44	56	49	44	54	48	43	53	47	43	41
8	66	53	45	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34
10	58	46	39	34	57	45	38	34	45	38	34	44	38	33	43	37	33	32

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

	0°	45°	90°
0°	24328	24328	24328
5°	24184	24302	24539
10°	23264	23983	24583
15°	22129	23230	24575
20°	19605	22244	24381
25°	14724	20718	24237
30°	10636	18000	23864
35°	8938	14273	23211
40°	8479	11254	22662
45°	8184	9353	21712
50°	7900	8451	20945
55°	7618	7824	19766
60°	6850	7322	17951
65°	6427	6707	15649
70°	5870	6215	13466
75°	5475	5475	10495
80°	4761	4761	7481
85°	4065	4065	5420



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.7	5.3
10°-20°	106.8	14.7
20°-30°	140.2	19.3
30°-40°	134.0	18.4
40°-50°	117.2	16.1
50°-60°	92.6	12.7
60°-70°	60.9	8.4
70°-80°	30.1	4.1
80°-90°	7.7	1.1
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°	285.7	39.2
0°-40°	419.7	57.6
0°-60°	629.5	86.4
0°-90°	728.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	728.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	412	412	412	412	412	
5°	408	406	410	412	414	38
15°	362	367	380	395	402	100
25°	226	255	318	355	372	104
35°	124	132	198	297	322	79
45°	98	98	112	217	260	76
55°	74	74	76	131	192	65
65°	46	46	48	70	112	46
75°	24	24	24	30	46	25
85°	6	6	6	6	8	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	412	412	412	412	412	412	412	412	412	412	412
2.5°	408	408	408	408	408	408	408	410	410	410	410
5°	408	408	408	406	406	406	408	408	408	410	410
7.5°	400	402	400	400	402	402	402	404	404	406	406
10°	388	388	390	390	390	392	392	396	398	400	400
12.5°	376	376	376	378	378	380	382	384	388	390	392
15°	362	362	364	364	366	368	370	374	376	380	384
17.5°	342	344	344	346	350	352	356	360	364	368	372
20°	312	312	316	320	324	330	336	342	348	354	360
22.5°	270	272	276	282	290	300	308	320	330	340	346
25°	226	228	232	238	248	262	274	290	304	318	330
27.5°	186	188	190	198	208	220	236	254	274	292	310
30°	156	158	160	164	172	184	198	218	240	264	286
32.5°	136	136	138	142	146	154	166	182	204	230	256
35°	124	124	126	126	130	134	142	156	172	198	226
37.5°	116	116	116	118	118	122	126	134	148	168	196
40°	110	110	110	110	110	112	116	120	130	146	166
42.5°	104	104	104	104	104	106	106	110	116	126	144
45°	98	98	98	98	98	98	100	102	106	112	124
47.5°	92	92	92	92	92	92	94	94	96	102	110
50°	86	86	86	86	86	86	86	88	88	92	98
52.5°	80	80	80	80	80	80	80	80	82	84	88
55°	74	74	74	74	74	74	74	74	74	76	80
57.5°	66	66	66	66	66	68	68	68	68	70	72
60°	58	58	58	58	60	60	62	62	60	62	64
62.5°	52	52	52	52	52	54	54	54	54	56	56
65°	46	46	46	46	46	46	48	48	48	48	50
67.5°	40	40	40	40	40	40	40	42	42	42	42
70°	34	34	34	34	34	34	34	36	36	36	36
72.5°	28	30	30	28	28	28	28	30	30	30	30
75°	24	24	24	24	24	24	24	24	24	24	24
77.5°	18	20	20	18	18	18	18	18	20	20	20
80°	14	14	14	14	14	14	14	14	14	14	14
82.5°	10	10	10	10	10	10	10	10	10	10	10
85°	6	6	6	6	6	6	6	6	6	6	6
87.5°	4	4	4	4	4	4	4	4	4	4	4
90°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	412	412	412	412	412	412	412	412
2.5°	410	412	412	412	414	414	416	416
5°	410	410	412	412	412	412	414	414
7.5°	408	408	408	410	410	410	412	412
10°	402	404	406	406	408	410	410	410
12.5°	396	398	400	402	404	406	406	406
15°	386	390	394	396	398	400	402	402
17.5°	376	382	386	390	392	394	396	396
20°	364	370	376	380	384	388	388	388
22.5°	352	358	364	370	376	378	380	380
25°	338	344	352	358	364	370	372	372
27.5°	322	332	340	346	354	358	362	360
30°	302	316	324	332	340	346	350	350
32.5°	280	298	308	318	326	332	336	336
35°	254	278	292	302	310	318	322	322
37.5°	226	254	274	286	294	304	308	308
40°	196	228	252	268	278	288	292	294
42.5°	168	202	230	248	260	270	276	276
45°	146	176	206	228	242	252	260	260
47.5°	126	152	182	208	224	236	244	246
50°	110	130	160	188	206	218	226	228
52.5°	96	112	138	166	186	200	208	210
55°	86	98	118	144	168	180	188	192
57.5°	76	86	102	126	148	160	168	172
60°	68	74	88	108	128	142	150	152
62.5°	60	64	74	90	110	122	130	132
65°	52	56	64	76	92	104	110	112
67.5°	44	48	54	62	74	84	90	92
70°	38	40	44	50	60	68	74	78
72.5°	32	32	36	40	46	52	58	62
75°	26	26	28	32	36	40	44	46
77.5°	20	20	22	24	26	28	32	34
80°	14	14	16	16	18	20	22	22
82.5°	10	10	10	10	12	12	14	14
85°	6	6	6	6	6	6	8	8
87.5°	4	4	4	4	4	4	4	4
90°	0	0	0	0	0	0	0	0

(END OF REPORT)