

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: FAIL-SAFE

Report Number: 01260

Luminaire Tested: **INBW100**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: 01260  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: INBW100  
Description: FAIL-SAFE CAST ALUMINUM HOUSING  
FORMED WHITE ENAMEL REFLECTOR  
WHITE VERTICAL PLASTIC ENCLOSURE  
Light Source: 100 WATT A-19 INCANDESCENT RATED 1750 LUMENS  
Ballast/Driver: -

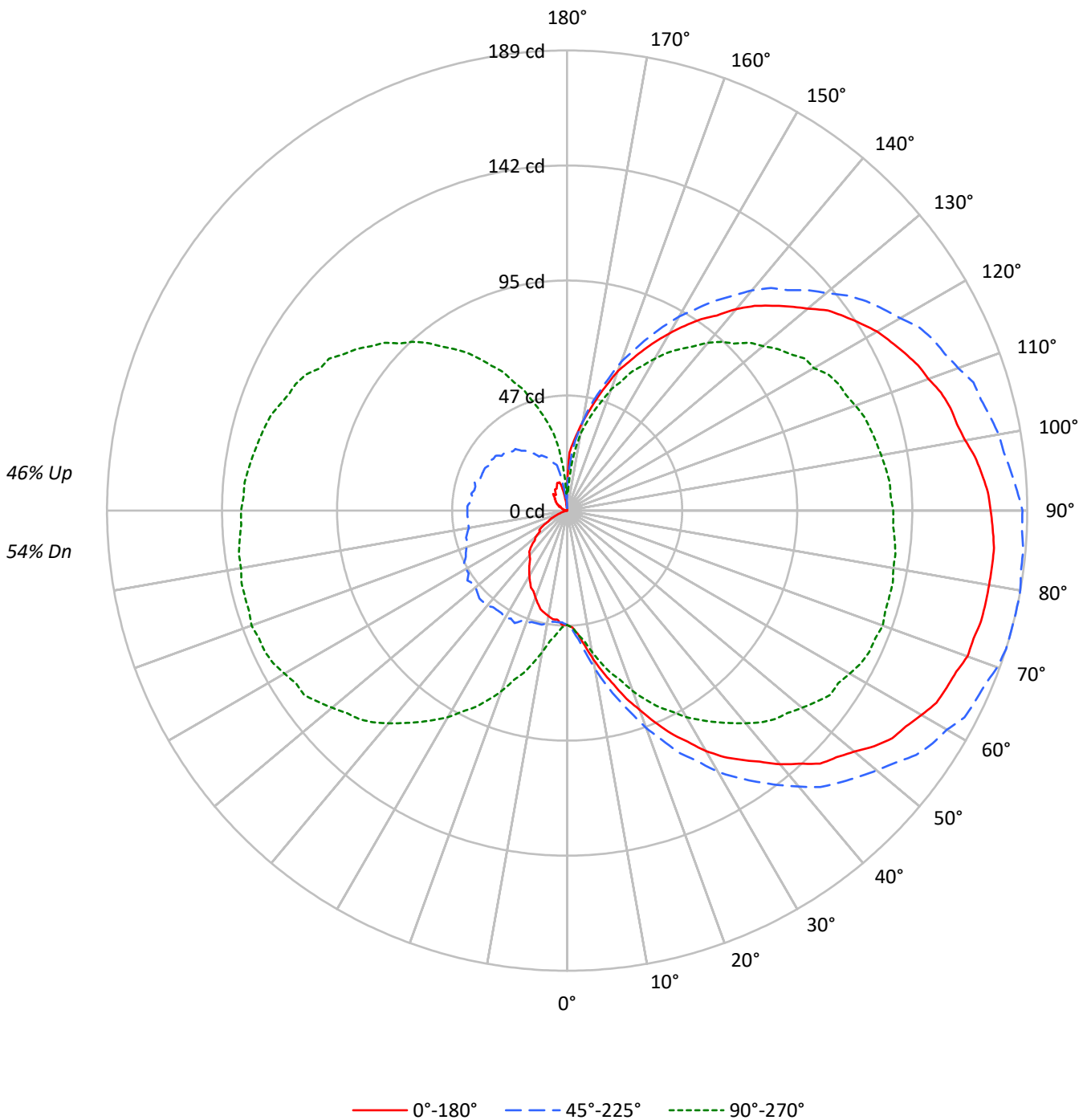
**Summary**

Lumens per Lamp: 1740 (1 lamp)  
Luminaire Lumens: 1203.0 lumens  
Efficiency: 69.1%  
Efficacy: 11.9 lumens/watt  
Spacing Criteria (0/90/45): 2.33 / 2.94 / 2.74  
Luminous Opening: Rectangular w/ Sides (W: 0.44' x L: 0.35' x H: 0.77')  
CIE Type: General Diffuse

Input Watts (W): 101  
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: 01260  
CATALOG NUMBER: INBW100

### Luminous Intensity Polar Plot





TEST NUMBER: 01260  
 CATALOG NUMBER: INBW100

**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	75	75	75	75	69	69	69	69	59	59	59	50	50	50	41	41	41	37
1	65	60	56	52	59	55	52	49	47	44	41	38	36	34	31	29	28	24
2	57	51	45	40	53	46	41	37	39	35	31	32	29	26	25	23	21	17
3	52	43	37	32	47	40	34	29	33	29	25	27	23	20	21	18	16	13
4	47	38	31	26	43	35	29	24	29	24	20	23	20	17	18	15	13	10
5	43	33	26	21	39	30	24	20	25	20	17	21	17	14	16	13	11	8
6	39	29	23	18	35	27	21	17	22	18	14	18	14	12	14	11	9	7
7	36	26	20	15	33	24	18	14	20	15	12	16	13	10	13	10	8	6
8	33	24	18	13	30	22	16	12	18	14	10	15	11	9	12	9	7	5
9	31	21	16	12	28	20	14	11	17	12	9	14	10	7	11	8	6	4
10	29	19	14	10	26	18	13	10	15	11	8	12	9	7	10	7	5	4

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

	0°	90°	180°
0°	3285	3285	3285
5°	3001	3103	2648
10°	3170	3200	2250
15°	3369	3399	1912
20°	3594	3590	1570
25°	3845	3780	1332
30°	4053	3934	1102
35°	4198	4064	907
40°	4360	4214	769
45°	4541	4349	649
50°	4624	4440	510
55°	4796	4597	412
60°	4882	4647	262
65°	4975	4767	174
70°	5077	4856	87
75°	5160	4913	29
80°	5257	5011	0
85°	5398	5155	0



TEST NUMBER: 01260  
 CATALOG NUMBER: INBW100

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	5.0	0.4	0.3	0°	47	47	47	47	47	
10°-20°	18.3	1.5	1.1	5°	51	53	51	46	45	5
20°-30°	36.7	3.0	2.1	15°	74	80	69	48	42	21
30°-40°	57.8	4.8	3.3	25°	101	110	89	51	35	47
40°-50°	79.5	6.6	4.6	35°	125	136	106	50	27	79
50°-60°	98.3	8.2	5.6	45°	147	158	121	51	21	113
60°-70°	112.4	9.3	6.5	55°	163	175	132	50	14	145
70°-80°	119.8	10.0	6.9	65°	172	185	137	46	6	171
80°-90°	122.0	10.1	7.0	75°	176	189	137	43	1	186
90°-100°	119.3	9.9	6.9	85°	176	188	135	41	0	144
100°-110°	111.7	9.3	6.4	90°	174	187	134	41	0	95
110°-120°	99.4	8.3	5.7	95°	171	183	133	40	0	139
120°-130°	82.7	6.9	4.8	105°	163	176	129	39	1	172
130°-140°	62.3	5.2	3.6	115°	153	166	123	38	3	152
140°-150°	41.9	3.5	2.4	125°	139	150	112	37	5	125
150°-160°	24.0	2.0	1.4	135°	119	128	97	34	7	92
160°-170°	10.2	0.8	0.6	145°	96	105	81	30	8	60
170°-180°	1.8	0.1	0.1	155°	72	78	63	25	10	34
0°-30°	59.9	5.0	3.4	165°	48	50	42	20	12	14
0°-40°	117.7	9.8	6.8	175°	28	25	17	3	0	3
0°-60°	295.5	24.6	17.0	180°	9	9	9	9	9	
0°-90°	649.7	54.0	37.3							
90°-120°	330.4	27.5	19.0							
90°-150°	517.3	43.0	29.7							
90°-180°	553.0	46.0	31.8							
0°-180°	1203.0	100.0	69.1							



TEST NUMBER: 01260  
 CATALOG NUMBER: INBW100

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	47	47	47	47	47	47	47	47	47
2.5°	48	50	49	48	48	46	46	46	47
5°	51	54	53	52	51	48	46	46	45
7.5°	56	59	59	58	54	50	46	45	45
10°	62	65	66	63	59	53	47	44	44
12.5°	68	71	73	71	64	56	48	43	43
15°	74	78	80	77	69	59	48	42	42
17.5°	81	84	87	83	73	62	48	40	40
20°	87	91	95	89	79	66	49	38	38
22.5°	94	98	102	96	84	69	49	37	36
25°	101	105	110	104	89	72	51	36	35
27.5°	107	111	116	109	93	74	50	34	33
30°	114	118	124	115	98	77	51	33	31
32.5°	120	123	130	121	102	79	50	31	29
35°	125	128	136	127	106	82	50	29	27
37.5°	130	134	142	132	110	84	50	27	25
40°	136	140	148	137	114	86	51	26	24
42.5°	141	145	154	143	118	89	51	25	23
45°	147	149	158	148	121	91	51	23	21
47.5°	150	153	162	151	123	92	50	20	18
50°	154	156	166	155	126	93	49	18	17
52.5°	159	160	170	158	129	94	49	17	14
55°	163	164	175	162	132	96	50	16	14
57.5°	165	166	178	164	132	96	48	13	12
60°	168	169	180	167	134	97	48	12	9
62.5°	171	171	184	170	136	99	48	11	8
65°	172	172	185	171	137	98	46	8	6
67.5°	173	174	186	172	137	98	45	7	4
70°	175	174	188	173	138	98	44	5	3
72.5°	175	175	189	175	137	98	43	3	2
75°	176	175	189	175	137	97	43	2	1
77.5°	176	175	189	174	137	97	42	2	0
80°	176	174	189	173	136	96	41	2	0
82.5°	176	174	188	173	136	96	41	1	0
85°	176	173	188	172	135	96	41	2	0
87.5°	175	173	187	171	134	96	41	2	0
90°	174	173	187	171	134	96	41	2	0
92.5°	173	170	185	169	133	94	41	2	0
95°	171	169	183	168	133	94	40	2	0
97.5°	169	167	181	168	132	94	39	2	0
100°	166	165	180	166	131	92	40	2	0
102.5°	164	164	178	165	130	92	39	2	0
105°	163	162	176	163	129	91	39	2	1
107.5°	161	161	175	162	128	91	40	3	2
110°	158	158	171	159	126	90	38	3	2



TEST NUMBER: 01260  
 CATALOG NUMBER: INBW100

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	156	155	168	156	124	88	38	3	2
115°	153	153	166	154	123	87	38	5	3
117.5°	150	150	163	151	121	86	38	5	4
120°	147	147	158	147	117	84	37	6	3
122.5°	143	143	154	143	116	83	38	7	5
125°	139	139	150	140	112	81	37	8	5
127.5°	135	135	145	135	109	79	37	9	6
130°	129	129	139	129	105	76	35	8	6
132.5°	124	125	134	125	102	73	35	9	7
135°	119	119	128	119	97	70	34	9	7
137.5°	114	115	124	115	94	68	33	10	8
140°	108	109	118	110	90	66	33	11	9
142.5°	101	103	111	102	85	62	31	10	8
145°	96	97	105	97	81	59	30	11	8
147.5°	90	91	98	91	77	56	28	12	9
150°	84	85	92	85	72	52	27	12	10
152.5°	78	79	85	79	67	49	25	12	10
155°	72	74	78	73	63	46	25	12	10
157.5°	66	67	71	66	57	42	24	13	11
160°	61	61	65	61	53	40	23	14	12
162.5°	54	54	57	53	47	35	21	14	12
165°	48	48	50	47	42	31	20	14	12
167.5°	42	42	44	41	37	28	19	12	10
170°	37	36	37	36	32	24	13	9	6
172.5°	32	31	31	29	25	16	8	5	3
175°	28	26	25	21	17	8	3	2	0
177.5°	24	20	16	13	7	2	1	2	5
180°	9	9	9	9	9	9	9	9	9

(END OF REPORT)