

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: 766696

Luminaire Tested: **INEW-75xxxx**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: 766696
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: INEW-75xxxx
Description: FAIL-SAFE WHITE 9 x 9
Light Source: #041 - 75W A-19 INSIDE FROSTED 1190 LUMENS
Ballast/Driver: -

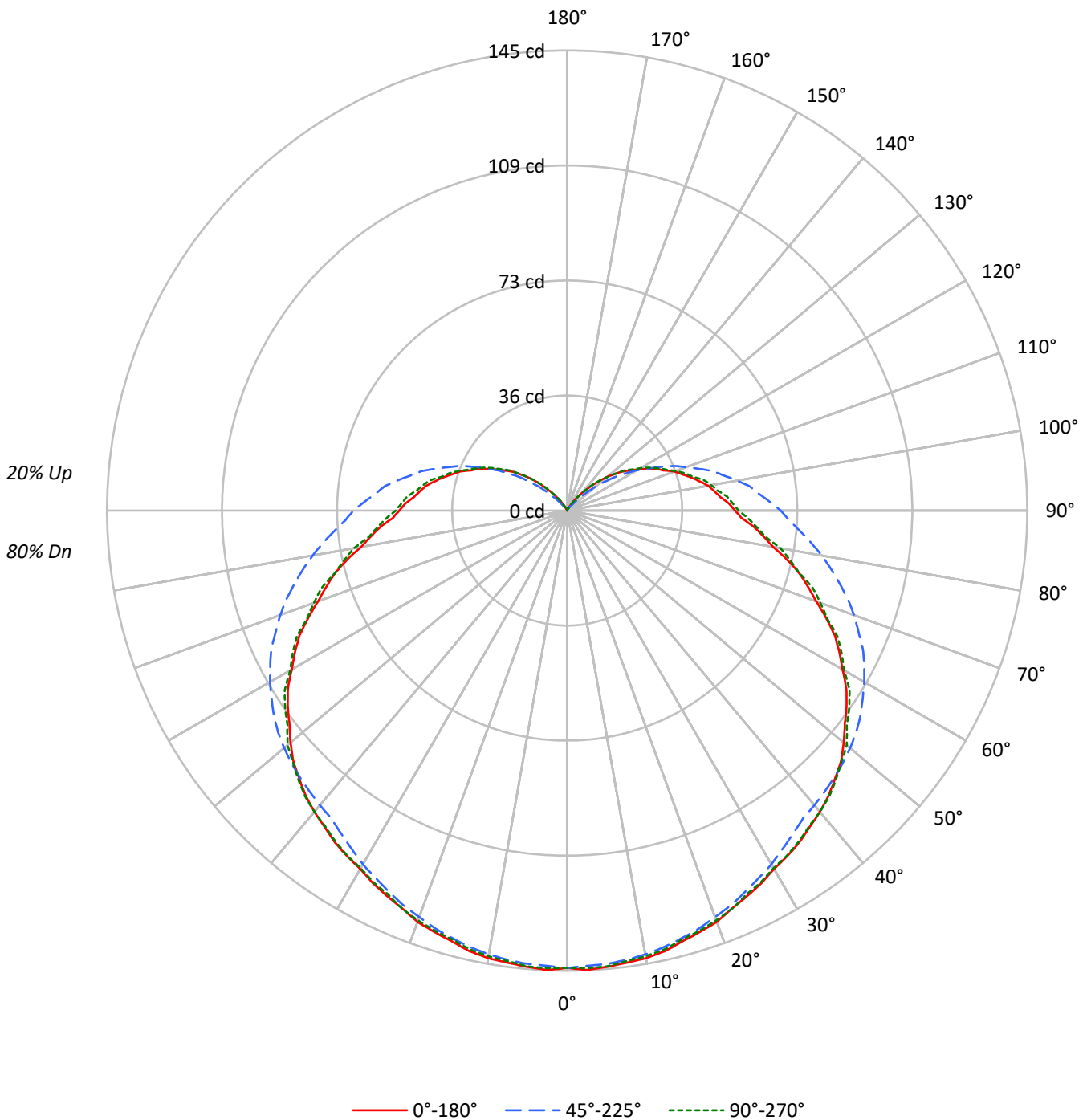
Summary

Lumens per Lamp: 1190 (1 lamp)
Luminaire Lumens: 808.9 lumens
Efficiency: 68.0%
Efficacy: 10.8 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.36 / 1.55
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Semi-Direct

Input Watts (W): 75
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				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	78	78	78	78	74	74	74	74	68	68	68	62	62	62	57	57	57	54
1	68	64	60	56	65	61	57	54	55	52	50	50	48	46	45	44	42	39
2	61	54	48	44	57	51	46	42	47	42	39	42	39	36	38	35	33	31
3	55	46	40	35	52	44	38	34	40	35	31	36	32	29	33	30	27	25
4	50	41	34	29	47	39	33	28	35	30	26	32	28	24	29	25	22	20
5	45	36	29	24	43	34	28	24	31	26	22	28	24	20	26	22	19	17
6	42	32	26	21	39	31	25	20	28	23	19	25	21	18	23	19	16	15
7	39	29	23	18	36	28	22	18	25	20	16	23	19	15	21	17	14	13
8	36	26	20	16	34	25	19	15	23	18	15	21	17	14	19	16	13	11
9	33	24	18	14	32	23	17	14	21	16	13	19	15	12	18	14	11	10
10	31	22	16	13	30	21	16	12	19	15	12	18	14	11	16	13	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	13.7	1.7	1.1	0°	144	144	144	144	144	
10°-20°	39.6	4.9	3.3	5°	144	144	143	144	144	14
20°-30°	61.5	7.6	5.2	15°	140	140	140	140	140	40
30°-40°	79.0	9.8	6.6	25°	134	133	133	133	134	62
40°-50°	92.1	11.4	7.7	35°	128	126	124	126	127	80
50°-60°	98.4	12.2	8.3	45°	119	119	119	119	120	92
60°-70°	97.2	12.0	8.2	55°	108	109	113	110	108	96
70°-80°	88.1	10.9	7.4	65°	93	98	103	99	94	92
80°-90°	74.2	9.2	6.2	75°	76	84	89	85	76	79
90°-100°	60.9	7.5	5.1	85°	59	69	74	69	60	50
100°-110°	46.3	5.7	3.9	90°	53	62	67	63	54	29
110°-120°	30.9	3.8	2.6	95°	48	56	61	57	51	39
120°-130°	17.5	2.2	1.5	105°	40	43	48	44	41	43
130°-140°	7.3	0.9	0.6	115°	31	30	32	30	32	31
140°-150°	1.8	0.2	0.1	125°	22	19	18	19	22	19
150°-160°	0.4	0.0	0.0	135°	11	9	6	9	12	9
160°-170°	0.1	0.0	0.0	145°	4	2	1	3	4	2
170°-180°	0.0	0.0	0.0	155°	1	1	1	1	1	0
0°-30°	114.8	14.2	9.6	165°	0	0	0	0	0	0
0°-40°	193.8	24.0	16.3	175°	0	0	0	0	0	0
0°-60°	384.3	47.5	32.3	180°	0	0	0	0	0	0
0°-90°	643.7	79.6	54.1							
90°-120°	138.1	17.1	11.6							
90°-150°	164.7	20.4	13.8							
90°-180°	165.0	20.4	13.9							
0°-180°	808.9	100.0	68.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	144.1	144.1	144.1	144.1	144.1
2.5°	144.9	144.0	143.6	143.9	144.3
5°	144.3	143.7	143.4	143.7	144.2
7.5°	143.7	143.4	142.8	143.2	143.2
10°	143.2	142.1	142.0	142.1	142.6
12.5°	142.2	141.3	140.9	141.2	141.6
15°	140.5	140.1	139.5	139.9	139.9
17.5°	139.2	138.3	138.1	138.4	138.8
20°	137.9	136.7	136.3	137.0	137.4
22.5°	135.7	135.2	134.7	135.1	135.8
25°	134.1	133.0	132.6	133.0	133.5
27.5°	132.4	131.1	130.6	131.3	132.1
30°	130.4	129.4	128.7	129.4	130.1
32.5°	129.1	127.7	126.4	127.5	128.9
35°	127.6	125.8	124.2	125.8	127.3
37.5°	125.6	124.3	122.2	124.4	125.3
40°	123.9	122.5	121.2	122.9	123.9
42.5°	121.9	120.6	120.1	121.1	122.2
45°	119.4	118.7	119.0	119.1	119.8
47.5°	117.0	116.2	117.8	117.1	117.2
50°	113.8	114.0	116.4	114.9	115.0
52.5°	110.3	111.6	114.8	112.3	111.1
55°	107.5	109.2	112.8	110.2	108.5
57.5°	104.3	106.5	110.4	107.3	105.5
60°	100.2	104.1	108.1	104.5	100.8
62.5°	96.7	101.3	105.5	102.0	97.5
65°	93.0	98.1	102.8	99.0	94.0
67.5°	88.3	95.0	99.3	95.5	88.6
70°	83.5	92.0	96.2	92.2	84.9
72.5°	79.5	87.2	92.7	88.6	81.2
75°	75.6	84.0	88.9	84.6	75.6
77.5°	70.9	80.7	85.2	80.8	71.9
80°	65.9	75.7	81.4	77.0	68.2
82.5°	62.4	72.5	77.5	73.0	62.9
85°	59.1	69.0	73.6	69.4	60.0
87.5°	55.1	64.9	70.0	66.1	57.1
90°	52.9	62.1	67.3	62.7	54.0
92.5°	51.0	59.3	63.9	59.8	52.2
95°	48.5	55.6	60.7	57.0	50.6
97.5°	46.8	53.0	58.1	53.7	47.9
100°	45.1	49.3	54.4	50.5	46.1
102.5°	42.7	46.2	50.7	46.9	44.2
105°	40.4	43.3	47.7	43.9	41.1
107.5°	38.0	39.8	43.7	40.5	39.0
110°	36.0	36.2	39.9	36.9	36.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	33.0	33.3	36.7	33.7	33.7
115°	31.0	29.9	32.5	30.3	31.5
117.5°	28.4	26.5	28.6	27.7	29.3
120°	25.9	23.9	25.4	24.0	26.7
122.5°	23.5	21.4	21.7	21.5	24.1
125°	21.5	18.6	18.5	19.1	22.0
127.5°	18.9	16.2	14.9	16.7	19.1
130°	16.6	14.0	11.8	14.1	16.4
132.5°	14.0	11.8	8.7	11.8	14.3
135°	11.3	8.9	6.0	9.3	11.9
137.5°	8.9	7.4	4.2	7.7	9.1
140°	7.1	5.4	2.2	5.1	6.9
142.5°	5.2	4.0	1.6	4.0	5.4
145°	3.7	2.3	1.4	2.6	4.0
147.5°	2.3	1.4	1.2	1.6	2.4
150°	1.4	0.9	1.1	1.0	1.3
152.5°	1.0	0.9	0.9	1.0	1.0
155°	0.9	0.7	0.8	0.7	1.0
157.5°	0.7	0.7	0.6	0.7	0.7
160°	0.7	0.6	0.4	0.6	0.7
162.5°	0.6	0.5	0.4	0.4	0.4
165°	0.4	0.4	0.3	0.4	0.4
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)