

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: 8707.0

Luminaire Tested: **ICP 2/26 89 277 HPF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: 8707.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ICP 2/26 89 277 HPF
Description: FAIL-SAFE 14"SQ RECESSED SECURITY LUMINAIRE
WHITE REFLECTOR w/.125 K19 ACRYLIC LENS
Light Source: 2/26W QUAD 1800 LUMENS
WATTS=57
CFQ26W/G24q/35
Ballast/Driver: 2 ADVANCE #H1Q26-TP-BLS

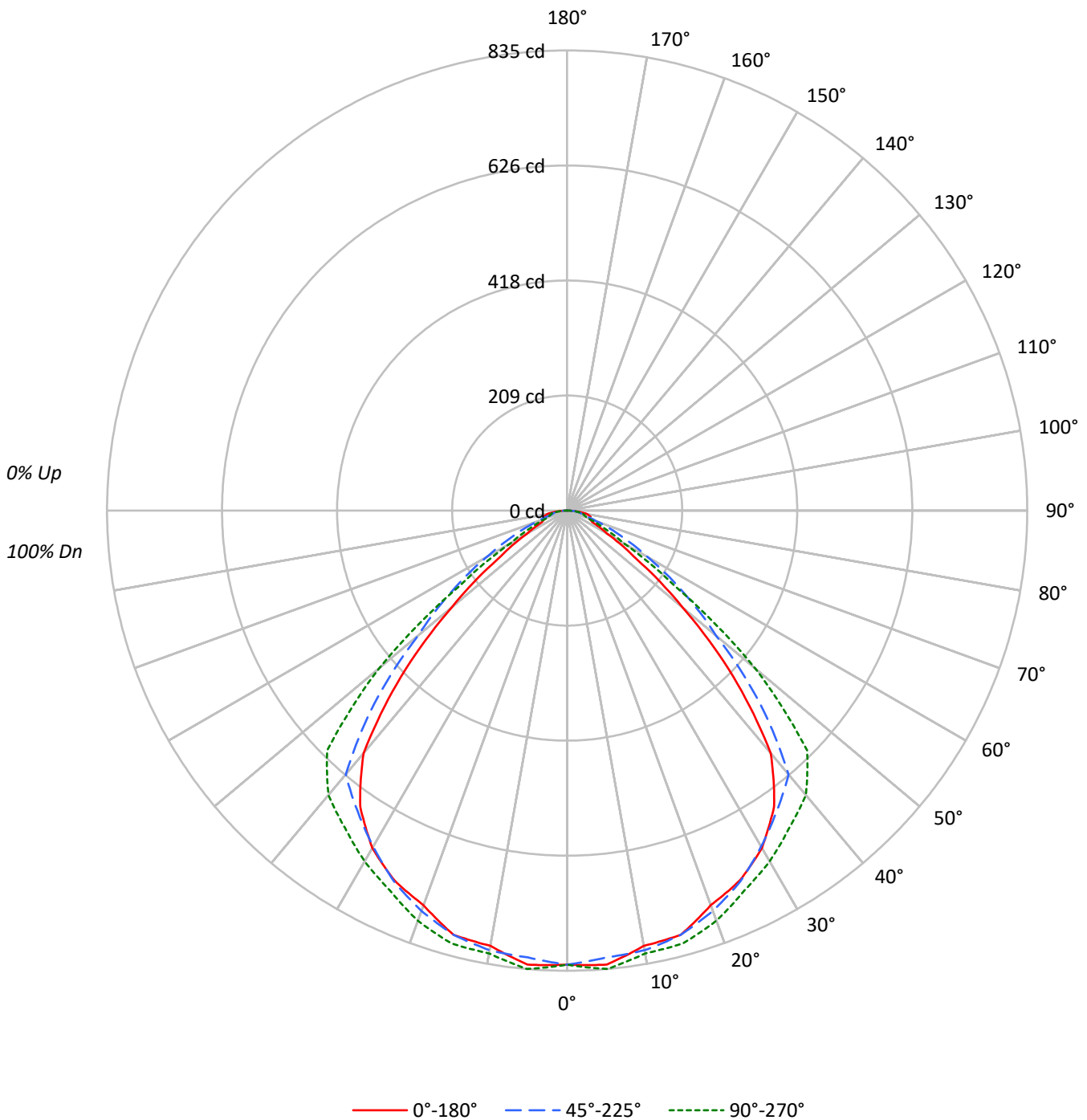
Summary

Lumens per Lamp: 1800 (2 lamps)
Luminaire Lumens: 1846.8 lumens
Efficiency: 51.3%
Efficacy: 32.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.33 / 1.34
Luminous Opening: Rectangular (W 0.96' x L: 0.96' x H: 0')
CIE Type: Direct

Input Watts (W): 57
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: 8707.0
CATALOG NUMBER: ICP 2/26 89 277 HPF

Luminous Intensity Polar Plot





TEST NUMBER: 8707.0

CATALOG NUMBER: ICP 2/26 89 277 HPF

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	61	61	61	61	60	60	60	60	57	57	57		55	55	55		52	52	52	51
1	57	55	53	51	55	54	52	50	51	50	49		49	48	47		48	47	46	45
2	52	49	46	43	51	48	45	43	46	44	42		45	43	41		43	41	40	39
3	48	44	40	37	47	43	40	37	41	39	36		40	38	36		39	37	35	34
4	45	39	35	32	44	39	35	32	37	34	32		36	34	31		35	33	31	30
5	41	36	31	28	40	35	31	28	34	31	28		33	30	28		32	29	27	26
6	39	32	28	25	38	32	28	25	31	27	25		30	27	25		29	27	24	23
7	36	29	25	22	35	29	25	22	28	25	22		28	24	22		27	24	22	21
8	33	27	23	20	33	27	23	20	26	23	20		25	22	20		25	22	20	19
9	31	25	21	18	31	25	21	18	24	21	18		24	20	18		23	20	18	17
10	29	23	19	17	29	23	19	17	22	19	17		22	19	16		21	19	16	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9664	9664	9664
5°	9736	9583	9831
10°	9551	9647	9718
15°	9677	9677	9872
20°	9511	9648	9885
25°	9589	9615	9848
30°	9575	9534	9954
35°	9378	9507	10065
40°	8803	9569	10319
45°	7066	8210	10217
50°	4981	6441	8138
55°	3149	5214	4867
60°	1970	3941	2768
65°	1415	2914	1943
70°	1475	1955	1337
75°	1994	1359	1450
80°	2499	1621	1891
85°	2557	2019	1884



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	78.1	4.2	2.2	0°	824	824	824	824	824	
10°-20°	224.8	12.2	6.2	5°	827	819	814	829	835	78
20°-30°	343.8	18.6	9.6	15°	797	788	797	804	813	223
30°-40°	419.6	22.7	11.7	25°	741	740	743	752	761	341
40°-50°	387.3	21.0	10.8	35°	655	653	664	682	703	406
50°-60°	218.0	11.8	6.1	45°	426	454	495	578	616	327
60°-70°	102.7	5.6	2.9	55°	154	207	255	281	238	148
70°-80°	52.2	2.8	1.4	65°	51	114	105	121	70	57
80°-90°	20.2	1.1	0.6	75°	44	61	30	61	32	44
90°-100°	0.0	0.0	0.0	85°	19	26	15	20	14	20
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	646.7	35.0	18.0							
0°-40°	1066.3	57.7	29.6							
0°-60°	1671.7	90.5	46.4							
0°-90°	1846.8	100.0	51.3							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	1846.8	100.0	51.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	824	824	824	824	824
5°	827	819	814	829	835
10°	802	801	810	814	816
15°	797	788	797	804	813
20°	762	761	773	781	792
25°	741	740	743	752	761
30°	707	701	704	718	735
35°	655	653	664	682	703
40°	575	595	625	664	674
45°	426	454	495	578	616
50°	273	305	353	427	446
55°	154	207	255	281	238
60°	84	142	168	181	118
65°	51	114	105	121	70
70°	43	86	57	85	39
75°	44	61	30	61	32
80°	37	40	24	45	28
85°	19	26	15	20	14
90°	0	0	0	0	0

(END OF REPORT)