

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: HALO

Report Number: E395729

Luminaire Tested: **H7-426/H930**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: E395729  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H7-426/H930  
Description: HALO RECESSED INC - H7 ADJ, CLEAR SPECULAR REFL, MAX TILT  
Light Source: 75R30SP, 900 LUMENS  
Ballast/Driver: -

**Summary**

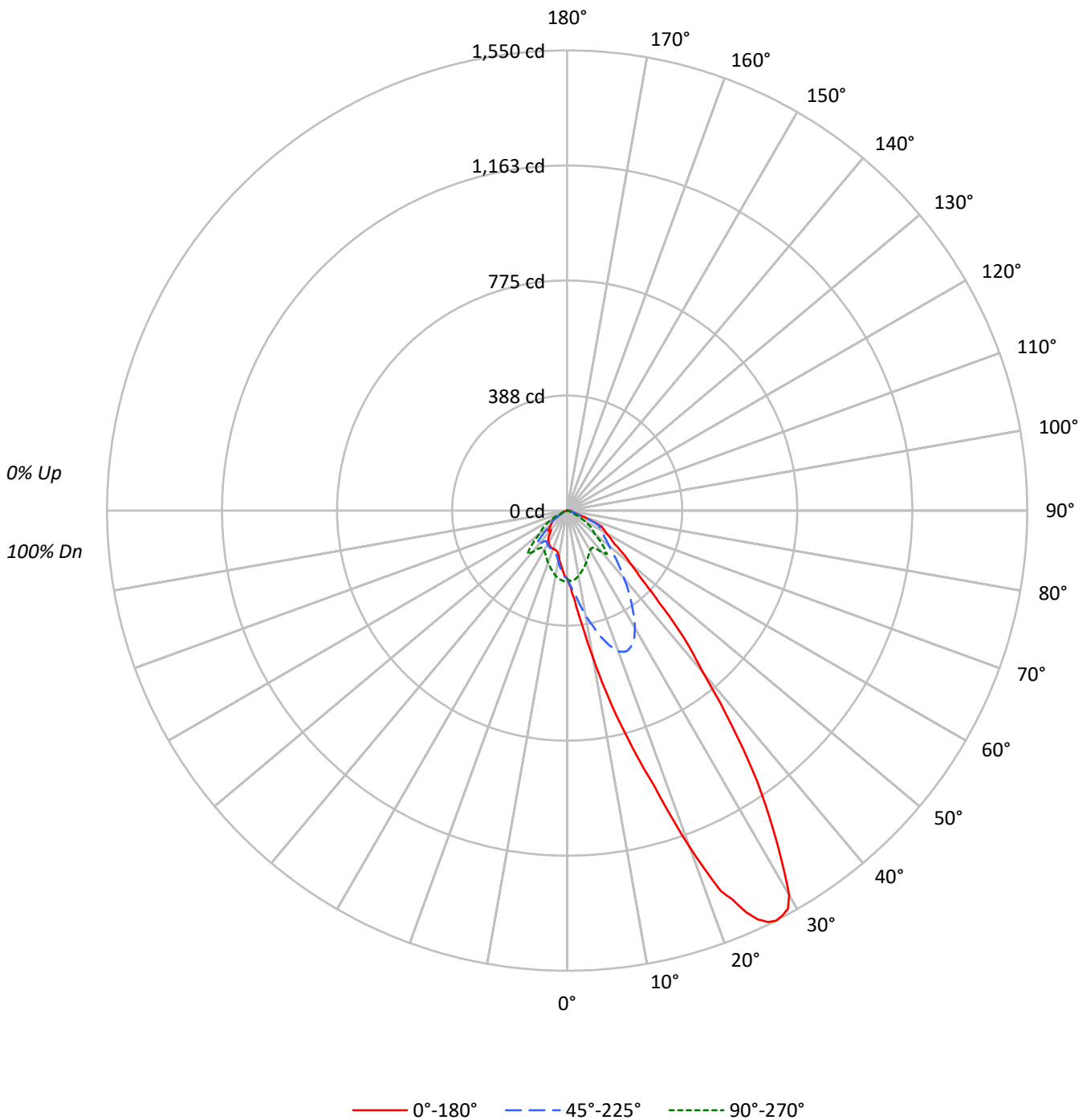
Lumens per Lamp: 900 (1 lamp)  
Luminaire Lumens: 831.5 lumens  
Efficiency: 92.4%  
Efficacy: 11.1 lumens/watt  
Spacing Criteria (0/90/45): 1.91 / 1.03 / 1.47  
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '  
CIE Type: Direct

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	110	110	110	110	107	107	107	107	103	103	103		98	98	98		94	94	94	92
1	102	99	96	93	100	97	94	91	93	91	88		89	88	86		86	85	83	81
2	95	88	83	79	93	87	82	78	84	80	76		81	77	74		78	75	73	71
3	88	79	73	68	85	78	72	67	75	70	66		73	68	65		71	67	64	62
4	81	71	64	59	79	70	63	58	68	62	58		66	61	57		64	60	56	54
5	75	64	57	52	73	63	56	51	62	55	51		60	54	50		58	53	50	48
6	70	58	51	46	68	58	51	45	56	50	45		55	49	45		53	48	44	43
7	65	53	46	41	63	53	46	41	51	45	40		50	44	40		49	44	40	38
8	60	49	41	36	59	48	41	36	47	41	36		46	40	36		45	40	36	34
9	56	45	38	33	55	44	38	33	43	37	33		42	37	33		41	36	32	31
10	53	41	34	30	52	41	34	30	40	34	30		39	34	30		38	33	29	28

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

	0°	90°	180°
0°	Luminous shape not found,		
5°	reference photometric report, or contact		
10°	the photometric lab for calculations.		
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	24.1	2.9	2.7
10°-20°	92.3	11.1	10.3
20°-30°	188.5	22.7	20.9
30°-40°	202.3	24.3	22.5
40°-50°	153.9	18.5	17.1
50°-60°	97.5	11.7	10.8
60°-70°	53.4	6.4	5.9
70°-80°	13.3	1.6	1.5
80°-90°	6.2	0.7	0.7
90°-100°	0.0	0.0	0.0
100°-110°	0.0	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°	304.9	36.7	33.9
0°-40°	507.2	61.0	56.4
0°-60°	758.7	91.2	84.3
0°-90°	831.5	100.0	92.4
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°	831.5	100.0	92.4

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	229	229	229	229	229	
5°	309	277	235	204	195	36
15°	800	441	205	150	140	242
25°	1519	507	169	138	134	681
35°	1119	376	152	125	109	687
45°	438	234	176	123	87	354
55°	194	152	97	61	61	183
65°	128	116	26	11	17	112
75°	19	15	6	5	5	26
85°	15	12	2	2	2	15
90°	11	5	1	1	1	



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**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	20°	22.5°	25°	30°
0°	229	229	229	229	229	229	229	229	229	229	229
2.5°	259	256	257	258	259	258	258	254	255	255	255
5°	309	310	303	312	306	305	302	303	301	296	294
7.5°	389	395	390	386	385	378	378	366	363	357	347
10°	503	492	491	479	488	473	471	451	446	437	423
12.5°	646	633	618	625	607	610	592	575	551	545	499
15°	800	786	791	776	772	750	736	692	679	656	602
17.5°	970	976	972	960	937	915	901	841	795	773	687
20°	1206	1186	1179	1162	1146	1096	1074	977	934	885	791
21°	1295	1264	1259	1241	1212	1181	1134	1044	977	930	819
22°	1382	1353	1344	1324	1292	1259	1208	1102	1030	977	845
23°	1422	1431	1412	1392	1345	1308	1269	1153	1078	1018	869
24°	1481	1474	1459	1435	1404	1362	1316	1195	1118	1042	891
25°	1519	1511	1498	1475	1440	1392	1341	1210	1142	1067	908
26°	1542	1533	1520	1492	1456	1413	1360	1230	1151	1080	911
27°	1550	1540	1526	1501	1465	1420	1368	1232	1155	1079	911
28°	1545	1537	1522	1497	1462	1412	1364	1223	1145	1071	904
29°	1534	1523	1510	1478	1446	1396	1345	1200	1124	1047	889
30°	1496	1486	1474	1451	1412	1369	1308	1180	1089	1017	861
32.5°	1307	1320	1305	1282	1254	1215	1166	1057	988	912	766
35°	1119	1116	1115	1080	1072	1017	993	893	852	791	677
37.5°	908	899	884	898	864	853	822	738	691	658	566
40°	710	714	699	710	683	672	663	596	563	535	464
42.5°	583	579	585	562	551	546	515	473	447	432	382
45°	438	444	440	436	429	424	410	382	361	353	316
47.5°	336	355	356	353	345	337	324	309	300	286	270
50°	279	285	282	279	277	276	265	257	252	244	229
55°	194	204	202	202	202	199	199	193	191	185	177
60°	152	160	160	160	159	158	156	154	153	150	146
65°	128	134	134	134	135	134	135	134	133	133	130
70°	45	50	55	56	62	62	64	63	57	61	53
75°	19	19	19	19	19	19	18	18	18	17	17
80°	15	15	15	16	15	15	15	15	15	15	15
85°	15	15	15	15	15	15	15	15	15	15	15
90°	11	11	12	11	12	12	12	12	11	11	9



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**CANDELA DISTRIBUTION (continued):**

	35°	40°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	229	229	229	229	229	229	229	229	229
2.5°	251	251	252	245	238	229	222	217	218
5°	292	286	277	256	235	217	204	198	195
7.5°	340	324	316	267	231	204	190	181	178
10°	398	378	358	275	223	195	173	163	159
12.5°	469	440	397	279	214	181	158	149	145
15°	545	489	441	278	205	168	150	142	140
17.5°	620	549	477	274	196	159	142	138	137
20°	684	589	505	265	187	151	140	137	137
21°	707	601	509	261	184	149	139	137	137
22°	725	610	513	256	180	147	138	138	137
23°	738	617	514	251	176	146	138	138	136
24°	751	619	511	247	172	144	138	137	136
25°	753	618	507	244	169	144	138	135	134
26°	756	614	500	239	165	143	137	133	132
27°	753	608	490	233	163	142	136	131	131
28°	743	597	483	228	160	142	134	130	129
29°	732	583	469	222	157	141	133	129	127
30°	711	570	457	218	155	139	132	127	124
32.5°	636	520	418	206	151	137	127	121	118
35°	560	463	376	193	152	137	125	116	109
37.5°	479	401	337	184	163	147	132	109	93
40°	402	348	298	172	184	169	149	103	84
42.5°	343	300	264	159	198	190	153	105	94
45°	288	262	234	148	176	181	123	94	87
47.5°	245	226	205	141	147	157	90	80	77
50°	217	200	184	135	120	119	75	72	69
55°	169	160	152	124	97	50	61	63	61
60°	143	140	135	111	62	14	23	25	22
65°	128	123	116	72	26	10	11	15	17
70°	51	45	39	18	10	8	9	11	13
75°	16	16	15	11	6	5	5	5	5
80°	15	15	14	8	4	3	3	3	2
85°	14	13	12	4	2	1	2	2	2
90°	8	7	5	1	1	1	1	1	1

(END OF REPORT)