

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: E395730

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: E395730  
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: 75R30FL, 900 LUMENS  
Ballast/Driver: -

**Summary**

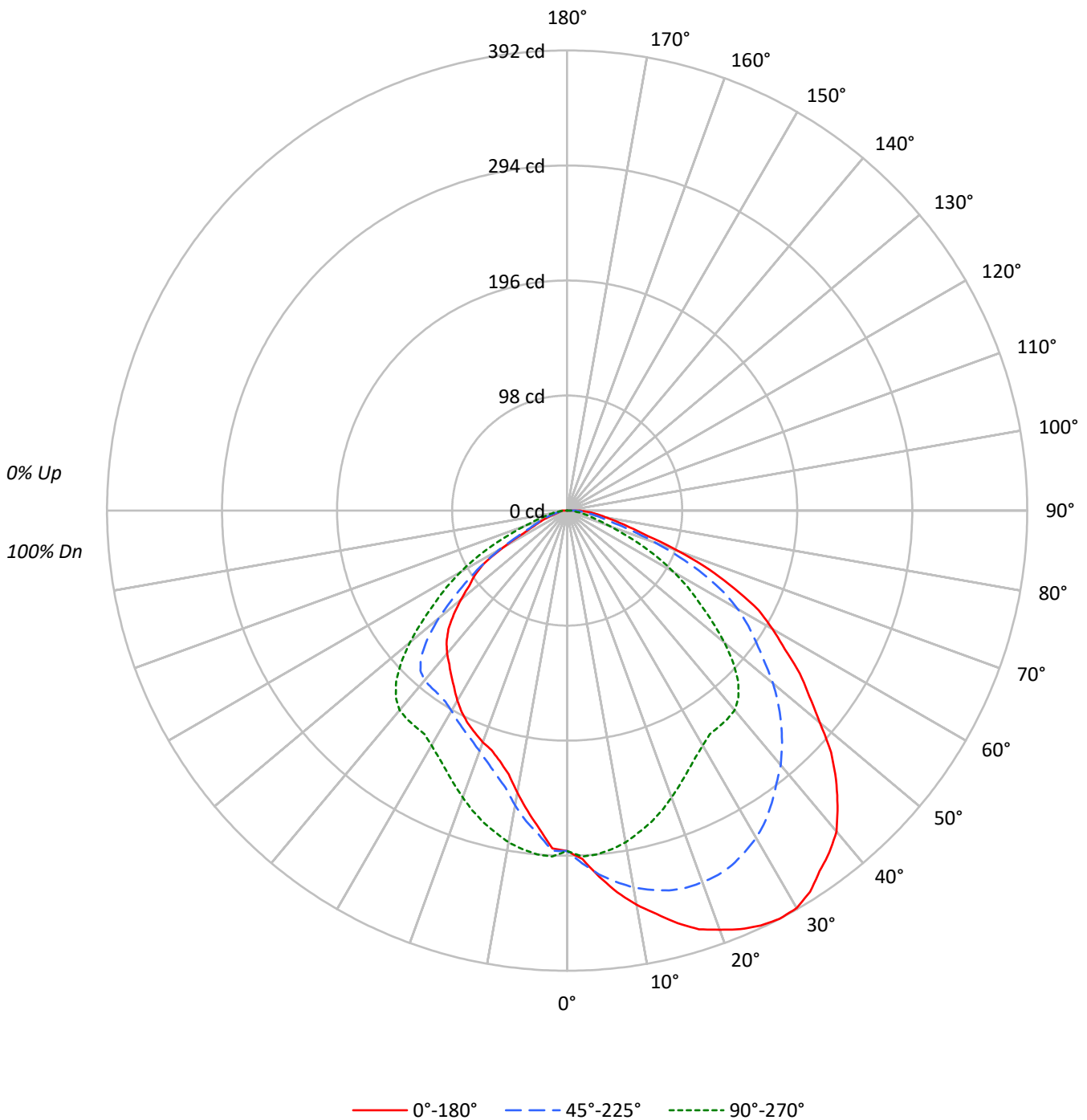
Lumens per Lamp: 900 (1 lamp)  
Luminaire Lumens: 817.0 lumens  
Efficiency: 90.8%  
Efficacy: 10.9 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 1.2 / 1.46  
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 75  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: E395730  
CATALOG NUMBER: H7-426/H930

### Luminous Intensity Polar Plot





TEST NUMBER: E395730  
 CATALOG NUMBER: H7-426/H930

**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	108	108	108	108	106	106	106	106	101	101	101		97	97	97		93	93	93	91
1	100	96	92	89	97	93	90	87	90	87	85		86	84	82		83	81	80	78
2	91	84	78	73	89	82	77	72	79	75	71		76	72	69		73	70	68	66
3	83	74	67	61	81	73	66	61	70	64	60		68	63	59		65	61	58	56
4	76	66	58	52	74	65	58	52	62	56	51		60	55	51		58	54	50	48
5	70	59	51	45	68	58	50	45	56	49	44		54	48	44		53	48	44	42
6	65	53	45	39	63	52	45	39	51	44	39		49	43	39		48	42	38	36
7	60	48	40	35	59	47	40	35	46	39	34		45	39	34		43	38	34	32
8	56	44	36	31	55	43	36	31	42	35	31		41	35	31		40	34	30	29
9	52	40	33	28	51	40	33	28	39	32	28		38	32	28		37	31	27	26
10	49	37	30	25	48	37	30	25	36	29	25		35	29	25		34	29	25	23

**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°			



TEST NUMBER: E395730  
 CATALOG NUMBER: H7-426/H930

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	27.9	3.4	3.1
10°-20°	80.4	9.8	8.9
20°-30°	124.7	15.3	13.9
30°-40°	156.1	19.1	17.3
40°-50°	167.1	20.4	18.6
50°-60°	136.4	16.7	15.2
60°-70°	82.2	10.1	9.1
70°-80°	31.6	3.9	3.5
80°-90°	10.7	1.3	1.2
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°	233.0	28.5	25.9
0°-40°	389.1	47.6	43.2
0°-60°	692.5	84.8	76.9
0°-90°	817.0	100.0	90.8
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°	817.0	100.0	90.8

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	290	290	290	290	290	
5°	313	311	294	277	272	31
15°	364	335	275	233	221	103
25°	390	333	244	207	200	180
35°	375	304	225	191	172	235
45°	324	258	206	176	143	249
55°	242	197	138	103	96	215
65°	157	128	70	35	31	154
75°	55	42	21	13	10	63
85°	21	14	6	5	5	23
90°	10	7	3	3	4	



TEST NUMBER: E395730  
 CATALOG NUMBER: H7-426/H930

**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	20°	22.5°	25°	30°
0°	290	290	290	290	290	290	290	290	290	290	290
2.5°	297	301	299	300	299	300	300	302	298	300	300
5°	313	316	315	314	315	315	314	315	313	313	313
7.5°	328	330	330	329	330	330	330	329	327	325	327
10°	341	344	344	343	343	342	342	342	339	338	336
12.5°	352	357	357	355	355	355	352	352	349	346	345
15°	364	367	365	365	365	364	363	362	357	354	352
17.5°	374	376	374	373	374	372	371	369	365	361	358
20°	380	385	382	382	381	380	378	373	370	366	361
22.5°	386	391	388	387	387	385	382	377	373	368	363
25°	390	394	392	390	390	388	385	379	374	369	363
27.5°	392	396	393	393	391	389	385	378	374	368	361
30°	391	394	393	391	390	387	384	376	370	365	357
32.5°	385	389	388	385	384	382	378	371	364	359	351
35°	375	382	380	378	377	375	371	362	356	351	342
37.5°	367	373	371	369	366	364	360	351	346	340	332
40°	357	359	359	357	356	352	348	340	335	328	320
42.5°	341	344	344	342	341	338	336	327	321	317	307
45°	324	327	327	325	325	322	319	312	308	302	294
47.5°	305	309	309	306	305	303	299	293	289	284	277
50°	281	288	286	286	285	282	278	273	270	265	259
52.5°	260	263	264	264	263	261	258	253	249	248	240
55°	242	244	244	243	243	242	238	234	230	227	221
57.5°	220	225	224	225	221	221	220	215	213	210	205
60°	202	205	204	203	203	202	200	197	194	191	187
62.5°	184	185	185	185	184	183	182	178	176	173	169
65°	157	161	161	161	163	161	161	155	153	151	146
67.5°	131	131	133	133	135	132	135	132	129	126	121
70°	101	102	102	104	105	104	105	103	100	98	94
72.5°	72	75	76	76	76	77	75	76	75	71	68
75°	55	55	57	58	57	57	56	55	54	52	50
77.5°	43	43	44	44	44	43	43	42	41	40	38
80°	34	34	35	34	34	34	33	32	32	31	29
82.5°	27	27	27	27	26	27	26	26	25	24	23
85°	21	21	21	21	20	21	20	19	19	18	17
87.5°	15	15	15	15	15	15	14	14	14	13	13
90°	10	10	10	10	10	9	9	9	9	9	8



TEST NUMBER: E395730  
 CATALOG NUMBER: H7-426/H930

**CANDELA DISTRIBUTION (continued):**

	35°	40°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	290	290	290	290	290	290	290	290	290
2.5°	300	299	301	297	295	292	290	288	288
5°	311	310	311	301	294	285	277	273	272
7.5°	323	322	319	305	291	277	267	260	258
10°	332	330	326	306	287	268	255	246	244
12.5°	341	336	331	305	281	259	242	234	230
15°	347	341	335	304	275	250	233	224	221
17.5°	351	344	337	300	268	241	225	216	214
20°	354	345	337	296	260	234	218	211	210
22.5°	354	345	336	290	252	226	212	206	205
25°	353	343	333	283	244	219	207	202	200
27.5°	350	339	328	275	237	213	202	196	194
30°	345	334	322	268	231	209	197	190	187
32.5°	338	326	314	259	226	205	193	183	179
35°	329	316	304	250	225	205	191	177	172
37.5°	319	306	293	240	224	208	190	172	165
40°	307	296	283	231	222	210	189	167	159
42.5°	296	283	271	221	216	209	185	162	152
45°	283	270	258	210	206	201	176	153	143
47.5°	267	254	244	198	192	186	161	141	131
50°	249	238	229	186	175	163	143	126	118
52.5°	232	221	212	173	156	140	122	111	105
55°	214	205	197	162	138	117	103	98	96
57.5°	199	189	183	150	122	97	85	85	84
60°	182	174	168	136	105	74	67	64	63
62.5°	163	157	150	119	88	58	47	44	42
65°	141	136	128	98	70	44	35	32	31
67.5°	116	111	104	76	52	34	27	26	25
70°	89	86	80	57	38	27	23	20	19
72.5°	65	62	59	41	28	21	18	15	14
75°	48	46	42	29	21	17	13	11	10
77.5°	36	34	32	22	16	12	10	9	8
80°	28	27	25	17	12	9	7	7	7
82.5°	22	21	19	12	8	6	6	6	6
85°	16	15	14	9	6	5	5	5	5
87.5°	12	10	10	6	4	3	4	4	5
90°	8	7	7	4	3	2	3	3	4

(END OF REPORT)