

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: E395749

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395749
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: 150R40SP, 1900 LUMENS
Ballast/Driver: -

Summary

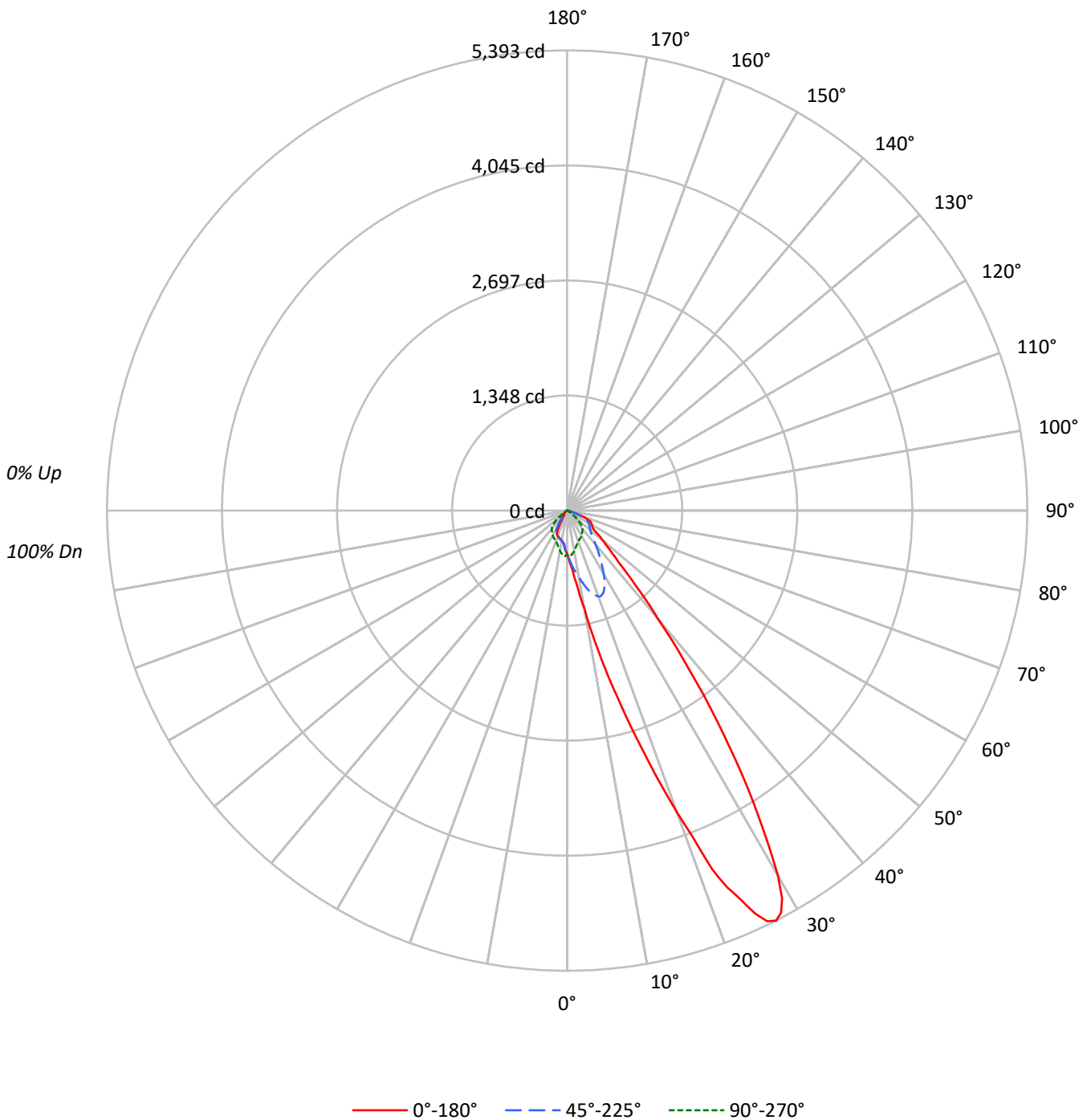
Lumens per Lamp: 1900 (1 lamp)
Luminaire Lumens: 1712.2 lumens
Efficiency: 90.1%
Efficacy: 11.4 lumens/watt
Spacing Criteria (0/90/45): 1.84 / 1 / 1.22
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 150
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: E395749
CATALOG NUMBER: H7-426/H930

Luminous Intensity Polar Plot





TEST NUMBER: E395749
 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	107	107	107	107	105	105	105	105	100	100	100		96	96	96		92	92	92	90
1	100	97	94	91	98	95	92	90	91	89	87		88	86	84		85	83	82	80
2	93	87	83	78	91	86	81	78	83	79	76		80	77	74		77	75	73	71
3	87	79	73	68	85	78	72	68	75	70	67		73	69	65		71	67	64	63
4	81	72	65	60	79	70	64	60	68	63	59		66	62	58		65	61	57	56
5	75	65	58	53	73	64	58	53	62	57	53		61	56	52		59	55	51	50
6	70	60	53	48	68	59	52	48	57	51	47		56	51	47		55	50	46	45
7	65	55	48	43	64	54	47	43	53	47	43		52	46	42		50	46	42	40
8	61	50	44	39	60	50	43	39	49	43	39		48	42	38		47	42	38	37
9	57	47	40	35	56	46	40	35	45	39	35		44	39	35		43	38	35	33
10	54	43	37	32	53	43	37	32	42	36	32		41	36	32		40	35	32	31

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: E395749
 CATALOG NUMBER: H7-426/H930

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	53.2	3.1	2.8
10°-20°	223.0	13.0	11.7
20°-30°	491.9	28.7	25.9
30°-40°	430.0	25.1	22.6
40°-50°	230.5	13.5	12.1
50°-60°	143.9	8.4	7.6
60°-70°	97.7	5.7	5.1
70°-80°	30.1	1.8	1.6
80°-90°	12.2	0.7	0.6
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°	768.0	44.9	40.4
0°-40°	1198.0	70.0	63.1
0°-60°	1572.3	91.8	82.8
0°-90°	1712.2	100.0	90.1
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°	1712.2	100.0	90.1

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	508	508	508	508	508	
5°	695	643	526	414	392	81
15°	2242	964	425	344	336	697
25°	5211	1023	360	308	274	2298
35°	3189	666	308	125	56	1986
45°	847	407	230	48	86	724
55°	370	319	50	20	27	362
65°	304	251	16	13	15	274
75°	53	32	10	11	11	80
85°	22	13	8	7	8	24
90°	14	9	7	5	7	



TEST NUMBER: E395749
 CATALOG NUMBER: H7-426/H930

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	20°	22.5°	25°	30°
0°	508	508	508	508	508	508	508	508	508	508	508
2.5°	587	580	581	592	586	575	583	583	585	579	575
5°	695	699	708	708	708	708	694	699	701	683	675
7.5°	884	864	891	893	884	871	874	836	836	829	797
10°	1169	1121	1144	1152	1143	1112	1084	1063	1043	1027	949
12.5°	1676	1629	1603	1611	1566	1504	1485	1417	1348	1300	1206
15°	2242	2149	2185	2144	2105	2035	1981	1841	1732	1646	1450
17.5°	2933	2941	2874	2850	2798	2634	2526	2292	2122	2016	1716
20°	3758	3732	3669	3669	3496	3355	3182	2839	2580	2408	1974
21°	4080	4086	4006	4010	3817	3644	3473	3039	2737	2547	2055
22°	4535	4431	4359	4333	4115	3851	3679	3222	2893	2643	2127
23°	4794	4735	4673	4600	4393	4110	3912	3336	3024	2747	2182
24°	4979	5001	4918	4814	4640	4339	4034	3475	3135	2812	2219
25°	5211	5183	5081	5025	4827	4515	4201	3564	3207	2863	2230
26°	5356	5306	5234	5155	4933	4609	4291	3610	3236	2876	2214
27°	5393	5358	5291	5186	4966	4635	4320	3606	3216	2846	2171
28°	5341	5317	5242	5131	4925	4583	4276	3558	3153	2783	2114
29°	5197	5175	5092	4997	4801	4452	4172	3449	3050	2682	2023
30°	4940	4944	4844	4753	4583	4299	3991	3285	2902	2592	1934
32.5°	4069	4134	4076	3954	3832	3614	3335	2804	2483	2175	1661
35°	3189	3170	3181	3164	2980	2819	2602	2205	1936	1744	1345
37.5°	2346	2326	2338	2303	2195	2064	1953	1639	1487	1315	1051
40°	1661	1696	1690	1663	1615	1496	1426	1213	1123	1006	842
42.5°	1184	1171	1160	1156	1137	1097	1015	915	830	784	679
45°	847	874	845	842	849	826	763	714	668	645	575
47.5°	666	684	674	678	662	645	627	588	571	542	492
50°	547	533	540	540	538	527	514	490	477	459	417
55°	370	372	374	382	378	380	375	372	368	362	357
60°	333	334	336	341	340	337	335	335	334	331	323
65°	304	304	305	309	308	307	304	303	300	297	290
70°	166	170	165	174	170	164	171	166	163	156	154
75°	53	55	55	55	54	53	52	49	47	45	42
80°	31	31	30	31	31	30	30	29	28	27	26
85°	22	21	22	22	21	21	21	20	20	19	18
90°	14	14	14	14	14	14	14	13	13	13	12



TEST NUMBER: E395749
 CATALOG NUMBER: H7-426/H930

CANDELA DISTRIBUTION (continued):

	35°	40°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	508	508	508	508	508	508	508	508	508
2.5°	569	574	570	553	536	508	473	466	466
5°	667	655	643	581	526	472	414	402	392
7.5°	769	743	721	599	505	430	377	371	372
10°	901	847	792	604	481	398	364	361	358
12.5°	1073	963	880	600	452	376	355	347	345
15°	1263	1106	964	587	425	363	344	339	336
17.5°	1457	1237	1031	571	399	352	335	328	324
20°	1615	1311	1071	547	382	343	327	318	318
21°	1658	1328	1076	540	377	339	323	316	316
22°	1677	1337	1075	529	372	335	318	314	313
23°	1701	1335	1063	518	368	331	314	311	306
24°	1709	1328	1049	508	365	326	311	303	294
25°	1700	1308	1023	496	360	321	308	290	274
26°	1674	1274	998	485	357	317	302	275	248
27°	1631	1243	964	473	352	313	295	251	215
28°	1579	1196	936	462	347	308	286	224	186
29°	1518	1142	897	451	341	304	272	194	146
30°	1444	1084	856	441	335	300	256	159	118
32.5°	1223	952	758	413	320	287	193	91	71
35°	1039	823	666	389	308	261	125	63	56
37.5°	840	697	594	367	295	224	80	59	57
40°	703	605	520	344	280	162	76	75	73
42.5°	592	522	459	323	263	94	76	103	107
45°	510	448	407	306	230	54	48	78	86
47.5°	448	402	375	292	191	36	36	51	55
50°	395	375	355	277	139	27	28	37	38
55°	344	332	319	234	50	18	20	26	27
60°	312	302	291	155	24	14	16	18	20
65°	279	266	251	65	16	11	13	15	15
70°	149	133	121	25	12	10	12	13	13
75°	39	36	32	15	10	10	11	12	11
80°	23	21	19	11	9	9	10	10	9
85°	16	15	13	9	8	8	7	8	8
90°	11	10	9	7	7	6	5	6	7

(END OF REPORT)