

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: E395748

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395748
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: 150R40FL, 1900 LUMENS
Ballast/Driver: -

Summary

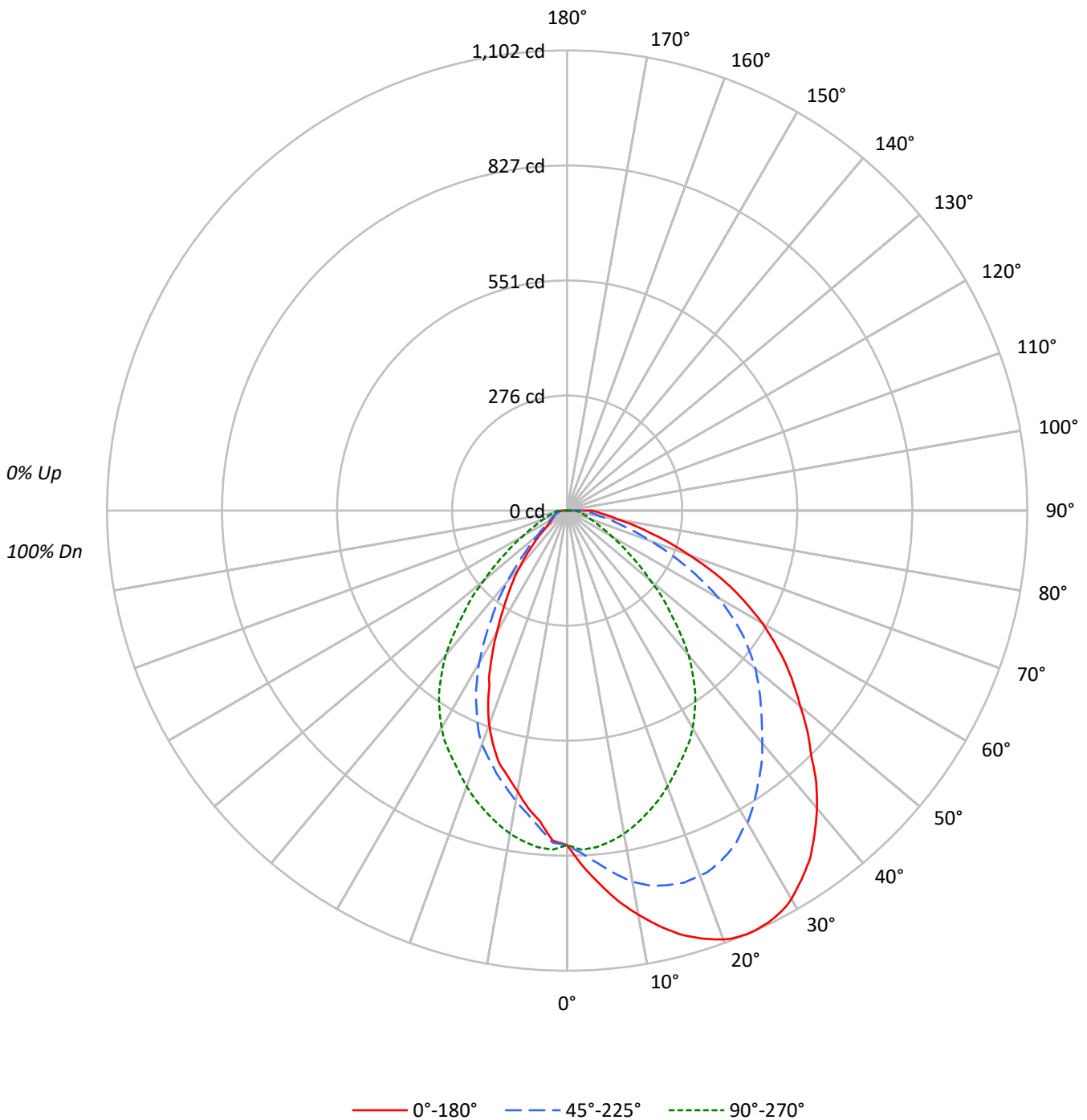
Lumens per Lamp: 1900 (1 lamp)
Luminaire Lumens: 1842.3 lumens
Efficiency: 97.0%
Efficacy: 12.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.13 / 1.23
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 150
Input Voltage (V): NR
Input Current (A_{in}): 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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CATALOG NUMBER: H7-426/H930

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	115	115	115	115	113	113	113	113	108	108	108	103	103	103	99	99	99	97
1	106	102	98	94	104	100	96	93	96	93	90	92	89	87	88	86	85	83
2	97	90	84	79	95	88	82	78	85	80	76	82	78	74	79	75	73	71
3	90	80	73	67	87	78	72	66	76	70	65	73	68	64	71	66	63	61
4	83	72	64	58	80	70	63	57	68	62	56	66	60	56	64	59	55	53
5	76	65	56	50	74	64	56	50	62	55	50	60	54	49	58	53	48	47
6	71	59	50	44	69	58	50	44	56	49	44	54	48	44	53	47	43	41
7	66	53	45	40	64	53	45	40	51	44	39	50	44	39	49	43	39	37
8	62	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33
9	58	45	38	32	56	45	37	32	44	37	32	43	36	32	42	36	32	30
10	54	42	35	30	53	41	34	30	41	34	29	40	34	29	39	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°	77.1	4.2	4.1
10°-20°	222.5	12.1	11.7
20°-30°	326.2	17.7	17.2
30°-40°	355.3	19.3	18.7
40°-50°	315.8	17.1	16.6
50°-60°	247.2	13.4	13.0
60°-70°	166.8	9.1	8.8
70°-80°	88.2	4.8	4.6
80°-90°	43.1	2.3	2.3
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°	625.8	34.0	32.9
0°-40°	981.1	53.3	51.6
0°-60°	1544.1	83.8	81.3
0°-90°	1842.3	100.0	97.0
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°	1842.3	100.0	97.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	801	801	801	801	801	
5°	898	848	809	762	747	88
15°	1051	929	748	652	627	298
25°	1100	908	653	515	443	507
35°	1015	797	535	315	248	632
45°	826	656	353	143	115	640
55°	639	510	182	63	50	570
65°	432	312	83	38	36	424
75°	205	134	45	27	27	223
85°	83	57	27	18	17	95
90°	59	40	21	15	14	



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	20°	22.5°	25°	30°
0°	801	801	801	801	801	801	801	801	801	801	801
2.5°	852	837	842	833	839	838	836	837	826	837	812
5°	898	886	883	878	884	881	880	881	871	877	843
7.5°	944	933	934	922	931	927	926	924	910	919	879
10°	983	974	976	962	969	968	962	959	946	953	908
12.5°	1019	1009	1009	1000	1004	1002	995	992	974	980	934
15°	1051	1041	1040	1029	1032	1031	1024	1017	1001	1004	954
17.5°	1075	1066	1065	1054	1056	1054	1047	1036	1019	1021	968
20°	1093	1083	1081	1071	1073	1069	1061	1050	1031	1032	975
21°	1098	1087	1086	1075	1077	1072	1065	1053	1034	1034	976
22°	1100	1091	1089	1078	1080	1075	1068	1054	1035	1035	977
23°	1102	1093	1091	1080	1081	1076	1069	1054	1035	1034	975
24°	1102	1093	1091	1080	1081	1076	1069	1053	1034	1033	972
25°	1100	1093	1090	1079	1080	1075	1067	1051	1030	1029	969
26°	1098	1090	1087	1076	1077	1071	1064	1048	1027	1025	965
27°	1094	1087	1085	1072	1074	1067	1059	1043	1022	1020	958
28°	1089	1082	1079	1066	1069	1062	1055	1037	1015	1014	952
29°	1083	1076	1074	1061	1061	1057	1047	1029	1007	1006	943
30°	1074	1068	1065	1052	1053	1048	1038	1020	1000	996	935
32.5°	1046	1041	1037	1025	1026	1020	1010	992	971	966	911
35°	1015	1010	1007	991	994	984	978	960	938	934	882
37.5°	974	969	965	953	953	947	936	917	899	896	856
40°	931	924	921	908	908	902	891	876	855	851	817
42.5°	883	877	873	858	862	857	847	831	812	804	777
45°	826	827	823	807	812	806	799	780	768	762	732
47.5°	780	773	770	764	767	759	751	734	720	717	694
50°	729	730	722	713	715	707	703	688	680	672	654
55°	639	635	632	625	629	623	617	605	594	593	574
60°	540	542	537	532	535	531	522	516	503	503	485
65°	432	430	427	423	421	417	420	407	401	393	376
70°	310	311	313	306	305	304	299	290	283	282	265
75°	205	205	201	202	197	195	197	185	180	180	166
80°	125	128	126	124	125	124	121	116	113	112	106
85°	83	84	81	82	80	80	80	76	72	72	69
90°	59	60	59	59	58	57	57	54	52	52	49



TEST NUMBER: E395748
 CATALOG NUMBER: H7-426/H930

CANDELA DISTRIBUTION (continued):

	35°	40°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	801	801	801	801	801	801	801	801	801
2.5°	827	823	822	816	813	806	796	790	791
5°	866	852	848	829	809	784	762	752	747
7.5°	902	886	877	838	799	759	732	718	718
10°	931	911	903	840	786	737	706	688	683
12.5°	954	930	920	837	768	713	678	659	653
15°	971	942	929	830	748	687	652	631	627
17.5°	982	950	934	819	727	665	623	599	589
20°	987	950	930	801	703	640	596	557	546
21°	986	949	929	793	693	630	582	537	526
22°	985	947	925	784	683	618	567	522	505
23°	983	944	920	775	672	607	550	506	483
24°	979	939	914	765	662	593	531	483	458
25°	975	933	908	758	653	583	515	460	443
26°	969	927	900	749	644	571	498	438	421
27°	962	918	892	738	633	556	481	417	399
28°	954	912	881	728	625	540	459	398	378
29°	944	901	870	718	613	525	442	379	358
30°	934	890	864	706	601	506	421	358	336
32.5°	905	862	832	677	569	456	368	310	289
35°	874	832	797	649	535	409	315	266	248
37.5°	832	791	765	625	494	359	272	223	213
40°	793	753	727	594	453	308	224	186	178
42.5°	749	718	690	561	403	258	180	154	145
45°	710	679	656	525	353	210	143	123	115
47.5°	671	641	622	485	311	177	116	97	95
50°	632	604	588	441	261	142	92	76	73
55°	560	531	510	351	182	92	63	52	50
60°	471	443	419	255	122	65	48	42	41
65°	358	336	312	179	83	50	38	36	36
70°	252	234	212	116	59	39	32	31	32
75°	160	145	134	77	45	32	27	27	27
80°	100	90	83	54	34	25	22	22	22
85°	65	61	57	39	27	20	18	18	17
90°	46	43	40	28	21	16	15	14	14

(END OF REPORT)