

Scaled data based on original data using  
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge or  
Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: E428405

Luminaire Tested: **M700-630-1725P**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-46-04  
Report Number: E428405  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: M700-630-1725P  
Description: HALO RECESSED HID - LITE COMMERCIAL, WALL WASH, HIGH SS  
Light Source: LU70D, 5400 LUMENS  
Ballast/Driver: -

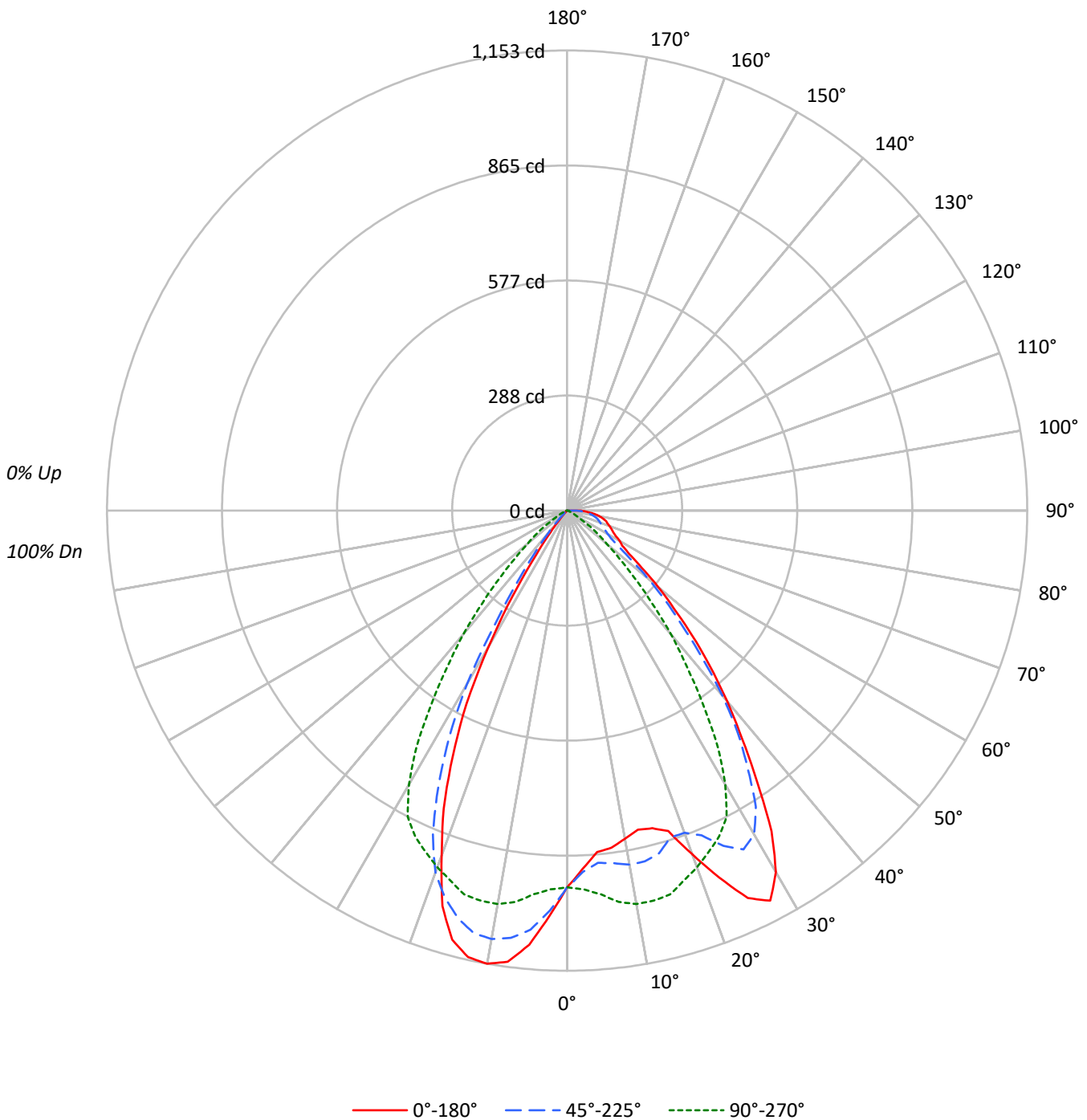
**Summary**

Lumens per Lamp: 5400 (1 lamp)  
Luminaire Lumens: 1444.6 lumens  
Efficiency: 26.8%  
Efficacy: 16.4 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.21 / 1.05  
Luminous Opening: (L: 0 ' x W: -0.42 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 88  
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	32	32	32	32	31	31	31	31	30	30	30		28	28	28		27	27	27	27
1	30	29	28	27	29	28	27	27	27	27	26		26	26	25		25	25	24	24
2	28	26	25	24	27	26	25	23	25	24	23		24	23	22		23	23	22	21
3	26	24	22	21	26	24	22	21	23	22	20		22	21	20		22	21	20	19
4	24	22	20	19	24	22	20	19	21	20	18		20	19	18		20	19	18	18
5	23	20	18	17	22	20	18	17	19	18	17		19	18	17		19	17	16	16
6	22	19	17	15	21	18	17	15	18	16	15		18	16	15		17	16	15	15
7	20	17	15	14	20	17	15	14	17	15	14		16	15	14		16	15	14	13
8	19	16	14	13	19	16	14	13	16	14	13		15	14	13		15	14	13	12
9	18	15	13	12	18	15	13	12	15	13	12		14	13	12		14	13	12	11
10	17	14	12	11	17	14	12	11	14	12	11		14	12	11		13	12	11	11

**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°	93.5	6.5	1.7
10°-20°	273.3	18.9	5.1
20°-30°	392.0	27.1	7.3
30°-40°	327.6	22.7	6.1
40°-50°	175.1	12.1	3.2
50°-60°	78.2	5.4	1.4
60°-70°	46.3	3.2	0.9
70°-80°	36.4	2.5	0.7
80°-90°	22.2	1.5	0.4
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°	758.8	52.5	14.1
0°-40°	1086.4	75.2	20.1
0°-60°	1339.7	92.7	24.8
0°-90°	1444.6	100.0	26.8
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°	1444.6	100.0	26.8

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	944	944	944	944	944	
5°	859	886	965	1054	1092	82
15°	824	889	996	1057	1113	239
25°	1071	927	901	764	677	482
35°	830	789	594	210	135	519
45°	444	407	240	17	4	344
55°	190	158	70	6	3	181
65°	127	99	14	2	2	128
75°	101	78	6	1	1	105
85°	57	45	4	1	1	63
90°	32	22	3	1	1	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	22.5°	25°	35°	45°	55°	65°	67.5°	75°
0°	944	944	944	944	944	944	944	944	944	944	944
2.5°	898	892	896	894	894	899	906	915	922	921	932
5°	859	859	861	866	868	874	886	900	915	917	932
7.5°	852	850	855	861	864	878	891	912	936	938	958
10°	835	836	844	852	857	877	901	928	955	960	980
12.5°	819	821	827	837	841	866	900	940	970	977	997
15°	824	824	827	832	835	853	889	938	979	985	1002
17.5°	842	839	831	828	829	833	859	910	956	966	982
20°	916	911	896	876	872	848	859	899	949	958	973
22.5°	995	994	977	952	946	901	881	907	950	960	972
25°	1071	1070	1046	1026	1013	963	927	921	955	961	969
27.5°	1102	1104	1082	1057	1048	1001	957	931	949	954	949
30°	1046	1063	1054	1034	1027	981	937	907	901	901	893
32.5°	953	958	959	949	942	916	880	848	832	826	809
35°	830	832	828	823	831	808	789	746	715	707	686
37.5°	720	721	724	719	722	716	703	662	629	619	593
40°	623	629	625	627	623	565	604	579	534	532	503
42.5°	530	529	525	527	521	509	502	476	445	436	408
45°	444	436	431	433	430	419	407	387	367	351	324
47.5°	362	367	362	355	359	348	333	317	286	284	253
50°	298	301	288	291	290	267	263	245	220	214	188
52.5°	235	231	229	226	224	212	200	186	162	161	142
55°	190	190	187	184	181	170	158	144	126	121	103
57.5°	164	163	160	155	155	143	131	117	97	92	75
60°	152	149	146	141	142	130	117	102	84	78	58
62.5°	137	137	135	130	129	119	108	93	72	66	47
65°	127	127	125	121	119	111	99	84	63	58	40
67.5°	120	119	117	113	111	104	93	78	58	53	35
70°	113	112	109	107	106	99	88	73	54	49	31
72.5°	106	106	104	102	101	93	83	69	51	46	30
75°	101	100	98	95	94	87	78	64	48	44	28
77.5°	92	92	90	87	85	80	71	59	44	40	26
80°	82	82	80	78	77	71	64	53	40	37	24
82.5°	72	71	69	67	66	61	56	46	35	33	21
85°	57	58	58	56	54	50	45	38	30	27	18
87.5°	45	45	45	43	42	39	35	29	23	21	15
90°	32	31	31	30	28	27	22	20	16	16	11



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**CANDELA DISTRIBUTION (continued):**

	85°	90°	112.5°	135°	157.5°	180°
0°	944	944	944	944	944	944
2.5°	945	950	977	1003	1015	1016
5°	953	965	1007	1054	1080	1092
7.5°	980	989	1028	1080	1125	1140
10°	1000	1001	1030	1090	1139	1153
12.5°	1009	1001	1013	1084	1128	1146
15°	1009	996	987	1057	1100	1113
17.5°	986	972	941	1017	1044	1039
20°	970	951	888	965	938	919
22.5°	953	926	822	879	817	808
25°	934	901	746	764	707	677
27.5°	905	865	679	639	569	547
30°	831	792	587	503	417	393
32.5°	743	703	482	331	265	254
35°	625	594	362	210	146	135
37.5°	530	492	267	126	74	67
40°	437	405	185	73	39	31
42.5°	348	314	127	36	15	8
45°	271	240	78	17	6	4
47.5°	203	177	40	11	4	4
50°	147	129	28	10	4	3
52.5°	114	99	28	8	3	3
55°	80	70	23	6	3	3
57.5°	53	42	16	4	3	2
60°	39	28	10	3	2	2
62.5°	29	20	6	2	2	3
65°	22	14	4	2	2	2
67.5°	17	9	3	2	2	2
70°	14	6	2	2	2	1
72.5°	13	6	2	2	1	1
75°	12	6	2	1	1	1
77.5°	12	5	2	1	1	1
80°	11	5	1	1	1	1
82.5°	10	5	1	1	1	1
85°	8	4	1	1	1	1
87.5°	7	3	1	1	1	1
90°	6	3	1	1	1	1

(END OF REPORT)