

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: E428406

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

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-46-04  
Report Number: E428406  
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, LOW SS  
Light Source: LU70D, 5400 LUMENS  
Ballast/Driver: -

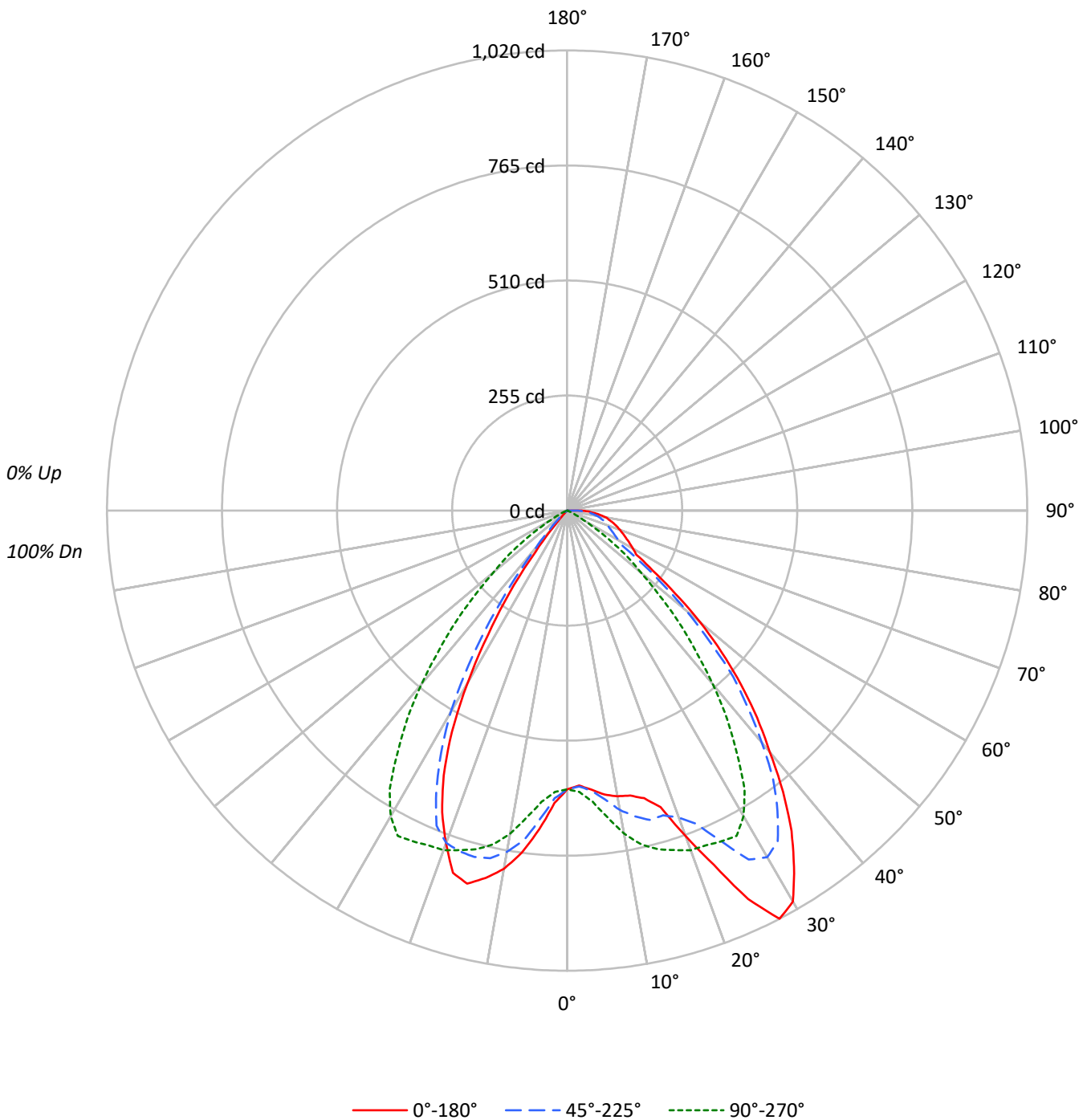
**Summary**

Lumens per Lamp: 5400 (1 lamp)  
Luminaire Lumens: 1428.2 lumens  
Efficiency: 26.4%  
Efficacy: 16.2 lumens/watt  
Spacing Criteria (0/90/45): 1.38 / 1.5 / 1.25  
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	31	31	31	31	31	31	31	31	29	29	29	28	28	28	27	27	27	26
1	29	28	27	27	29	28	27	26	27	26	25	26	25	25	25	24	24	23
2	27	26	24	23	27	25	24	23	24	23	22	23	22	22	23	22	21	21
3	25	23	21	20	25	23	21	20	22	21	20	21	20	19	21	20	19	18
4	24	21	19	18	23	21	19	18	20	19	17	20	18	17	19	18	17	16
5	22	19	17	16	22	19	17	16	18	17	16	18	17	15	18	16	15	15
6	21	18	16	14	20	17	16	14	17	15	14	17	15	14	16	15	14	13
7	19	16	14	13	19	16	14	13	16	14	13	15	14	13	15	14	13	12
8	18	15	13	12	18	15	13	12	15	13	12	14	13	12	14	13	11	11
9	17	14	12	11	17	14	12	11	13	12	11	13	12	11	13	12	11	10
10	16	13	11	10	16	13	11	10	13	11	10	12	11	10	12	11	10	9

**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°	64.7	4.5	1.2
10°-20°	214.0	15.0	4.0
20°-30°	354.5	24.8	6.6
30°-40°	356.2	24.9	6.6
40°-50°	224.9	15.7	4.2
50°-60°	101.5	7.1	1.9
60°-70°	51.6	3.6	1.0
70°-80°	38.1	2.7	0.7
80°-90°	22.6	1.6	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°	633.3	44.3	11.7
0°-40°	989.5	69.3	18.3
0°-60°	1315.9	92.1	24.4
0°-90°	1428.2	100.0	26.4
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°	1428.2	100.0	26.4

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	618	618	618	618	618	
5°	621	623	648	686	709	60
15°	660	710	777	795	856	193
25°	950	809	809	687	648	432
35°	867	813	656	297	225	536
45°	545	521	350	31	5	418
55°	231	198	120	5	3	220
65°	144	110	14	2	2	144
75°	106	82	2	1	1	111
85°	59	47	1	1	1	65
90°	33	22	1	1	1	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	22.5°	25°	35°	45°	55°	65°	67.5°	75°
0°	618	618	618	618	618	618	618	618	618	618	618
2.5°	610	610	610	610	611	610	612	614	615	616	619
5°	621	621	621	621	620	621	623	625	632	632	636
7.5°	635	634	636	637	637	640	646	652	659	663	673
10°	643	643	648	655	655	665	674	685	699	704	708
12.5°	647	647	651	658	662	678	694	716	738	740	749
15°	660	662	666	671	674	686	710	741	766	772	785
17.5°	689	684	687	684	683	688	708	748	784	790	802
20°	767	764	758	744	738	716	724	760	813	819	834
22.5°	850	854	841	825	823	782	752	786	840	844	859
25°	950	949	931	913	904	855	809	817	862	875	885
27.5°	1020	1016	998	974	966	921	872	853	889	900	910
30°	1001	1005	1003	982	974	933	887	855	873	883	894
32.5°	936	944	937	926	930	904	869	832	832	839	852
35°	867	862	858	845	844	844	813	777	764	762	765
37.5°	786	777	770	764	760	762	750	716	691	687	688
40°	699	696	685	690	688	682	671	647	621	617	607
42.5°	623	619	619	614	611	603	593	576	541	536	527
45°	545	548	548	533	532	529	521	494	463	456	447
47.5°	465	467	465	460	453	443	426	406	379	380	366
50°	384	384	380	375	367	357	343	321	292	297	285
52.5°	302	308	303	291	297	282	263	248	227	220	219
55°	231	234	230	225	223	207	198	177	160	153	150
57.5°	182	185	179	176	171	160	146	128	107	102	94
60°	168	169	164	160	159	148	131	114	95	91	71
62.5°	156	156	153	146	145	135	119	102	83	77	58
65°	144	143	140	135	134	123	110	93	72	67	47
67.5°	134	133	130	126	124	114	102	86	65	60	40
70°	124	124	121	117	116	107	95	80	60	55	35
72.5°	115	115	111	108	107	99	89	75	56	51	33
75°	106	105	102	100	98	93	82	69	52	47	31
77.5°	95	95	94	92	90	84	75	63	47	43	29
80°	88	87	84	81	81	74	67	56	43	39	26
82.5°	74	75	73	70	69	64	57	48	37	34	23
85°	59	61	59	58	56	51	47	39	30	28	19
87.5°	46	47	45	44	43	40	35	31	23	22	15
90°	33	32	31	29	30	27	22	20	17	16	11



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**CANDELA DISTRIBUTION (continued):**

	85°	90°	112.5°	135°	157.5°	180°
0°	618	618	618	618	618	618
2.5°	621	624	630	638	646	649
5°	644	648	665	686	701	709
7.5°	684	686	704	737	759	764
10°	721	727	729	768	799	806
12.5°	752	758	742	789	821	834
15°	782	777	742	795	840	856
17.5°	798	789	733	792	842	842
20°	819	801	713	784	793	785
22.5°	830	803	678	756	737	724
25°	848	809	648	687	653	648
27.5°	860	813	613	605	562	553
30°	839	782	553	518	458	443
32.5°	796	732	486	407	358	326
35°	715	656	415	297	241	225
37.5°	640	582	340	189	127	115
40°	562	503	259	107	57	44
42.5°	491	421	186	63	24	11
45°	409	350	125	31	7	5
47.5°	327	275	72	15	4	4
50°	261	212	40	12	4	4
52.5°	209	170	33	9	4	3
55°	143	120	27	5	3	3
57.5°	87	75	19	3	3	3
60°	51	42	12	3	3	2
62.5°	30	22	7	3	2	2
65°	18	14	4	2	2	2
67.5°	10	8	3	2	2	2
70°	6	3	2	2	2	2
72.5°	5	3	2	2	1	1
75°	5	2	2	1	1	1
77.5°	5	2	2	1	1	1
80°	4	2	1	1	1	1
82.5°	4	2	1	1	1	1
85°	4	1	1	1	1	1
87.5°	3	1	1	1	1	1
90°	3	1	1	1	1	1

(END OF REPORT)