

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: E395344

Luminaire Tested: **L1769**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: E395344
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L1769
Description: HALO TRAC - SCOOP WALL WASH
Light Source: 150R40FL, 1900 LUMENS
Ballast/Driver: -

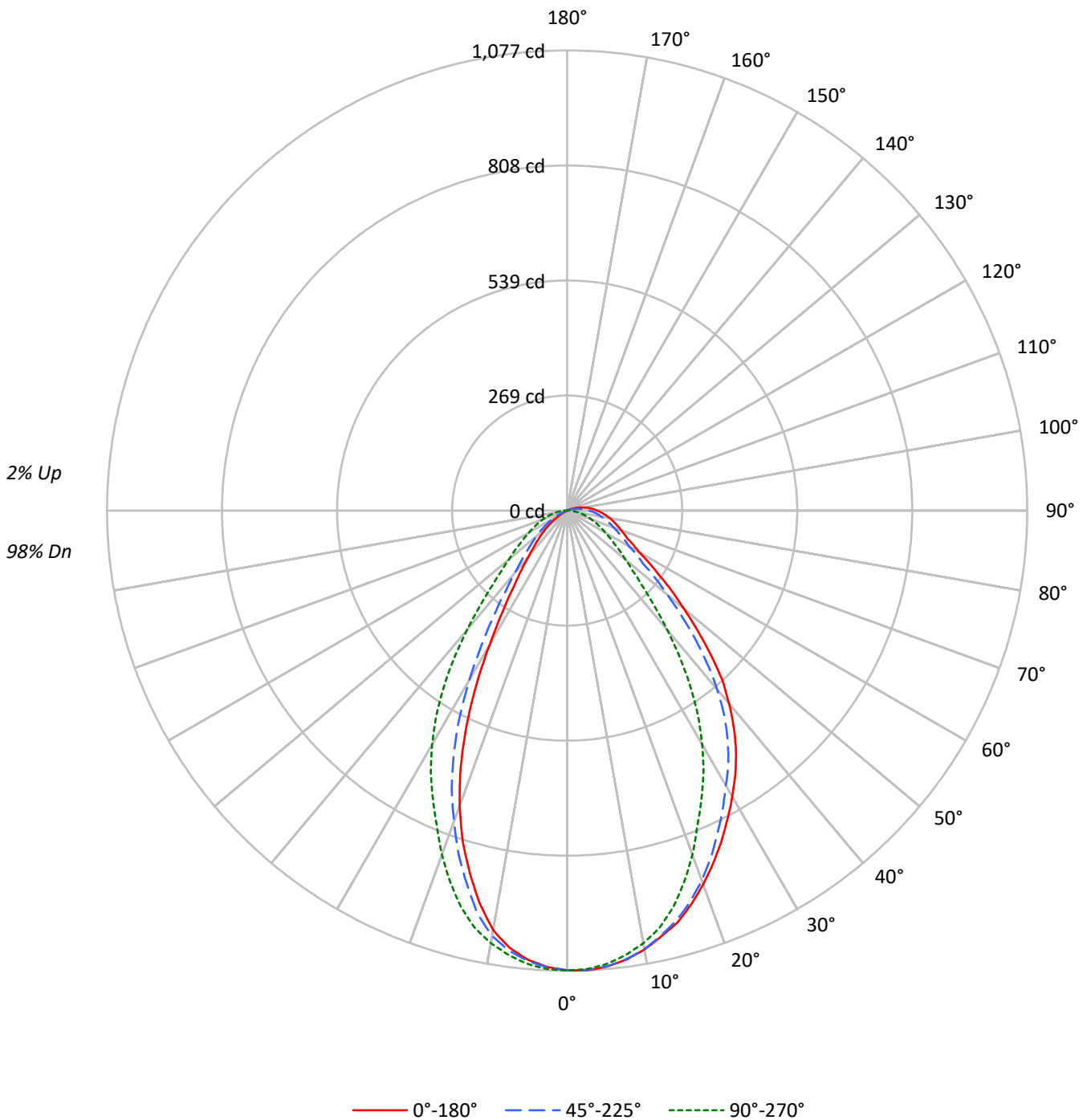
Summary

Lumens per Lamp: 1900 (1 lamp)
Luminaire Lumens: 1531.4 lumens
Efficiency: 80.6%
Efficacy: 10.2 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.96 / 0.99
Luminous Opening: Point Source (0' x 0' x 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: E395344
CATALOG NUMBER: L1769

Luminous Intensity Polar Plot





TEST NUMBER: E395344
 CATALOG NUMBER: L1769

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	96	96	96	96	93	93	93	93	89	89	89	85	85	85	81	81	81	79		
1	89	86	83	80	87	84	81	79	80	78	76	77	75	73	74	72	71	69		
2	83	77	73	69	80	75	71	68	73	69	66	70	67	64	67	65	63	61		
3	77	70	64	60	75	68	63	59	66	62	58	64	60	57	62	59	56	54		
4	72	64	58	53	70	62	57	53	60	56	52	58	54	51	57	53	50	49		
5	67	58	52	48	65	57	52	47	55	50	47	54	49	46	52	49	46	44		
6	63	53	47	43	61	53	47	43	51	46	42	50	45	42	49	45	41	40		
7	59	49	43	39	57	49	43	39	47	42	39	46	42	38	45	41	38	37		
8	55	46	40	36	54	45	40	36	44	39	35	43	39	35	42	38	35	34		
9	52	43	37	33	51	42	37	33	41	36	33	40	36	32	40	35	32	31		
10	49	40	34	31	48	39	34	30	39	34	30	38	33	30	37	33	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



TEST NUMBER: E395344
 CATALOG NUMBER: L1769

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	100.4	6.6	5.3
10°-20°	265.1	17.3	14.0
20°-30°	332.8	21.7	17.5
30°-40°	298.6	19.5	15.7
40°-50°	212.4	13.9	11.2
50°-60°	130.1	8.5	6.8
60°-70°	79.6	5.2	4.2
70°-80°	53.0	3.5	2.8
80°-90°	33.8	2.2	1.8
90°-100°	18.0	1.2	0.9
100°-110°	6.5	0.4	0.3
110°-120°	1.1	0.1	0.1
120°-130°	0.1	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°	698.2	45.6	36.7
0°-40°	996.8	65.1	52.5
0°-60°	1339.3	87.5	70.5
0°-90°	1505.7	98.3	79.2
90°-120°	25.6	1.7	1.3
90°-150°	25.7	1.7	1.4
90°-180°	26.0	1.7	1.4
0°-180°	1531.4	100.0	80.6

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1076	1076	1076	1076	1076	
5°	1071	1071	1065	1058	1055	101
15°	998	992	960	906	879	280
25°	854	833	744	628	558	393
35°	689	655	503	297	220	429
45°	473	422	248	131	95	364
55°	262	218	134	64	36	240
65°	156	138	80	18	0	159
75°	117	98	43	0	0	124
85°	85	67	13	0	0	73
90°	70	51	2	0	0	39
95°	56	37	0	0	0	42
105°	27	11	0	0	0	29
115°	3	0	0	0	0	5
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: E395344
 CATALOG NUMBER: L1769

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1076	1076	1076	1076	1076	1076	1076	1076	1076	1076	1076
2.5°	1077	1078	1077	1077	1077	1076	1076	1075	1075	1074	1074
5°	1071	1073	1072	1072	1070	1071	1069	1068	1068	1065	1065
7.5°	1060	1062	1062	1061	1061	1059	1058	1055	1054	1051	1049
10°	1043	1045	1045	1045	1045	1042	1040	1036	1033	1029	1028
12.5°	1020	1025	1024	1023	1022	1018	1016	1012	1007	1002	1000
15°	998	998	997	997	995	992	987	980	973	965	960
17.5°	966	968	965	964	962	959	951	943	935	917	911
20°	931	932	931	929	925	921	910	903	886	868	857
22.5°	893	893	893	890	885	879	863	853	834	811	797
25°	854	856	853	849	844	833	819	802	780	757	744
27.5°	813	817	812	809	802	788	774	751	727	704	691
30°	773	775	770	767	758	743	727	702	678	647	632
32.5°	732	734	732	725	716	702	680	655	623	588	570
35°	689	691	689	684	670	655	630	601	566	524	503
37.5°	641	645	641	635	622	604	577	544	505	456	433
40°	589	593	592	583	569	546	516	485	441	392	364
42.5°	537	540	533	525	510	485	454	418	376	327	300
45°	473	479	470	464	448	422	394	357	314	270	248
47.5°	412	418	412	402	389	361	334	299	261	225	208
50°	355	359	355	344	328	305	280	250	219	190	178
55°	262	259	256	250	234	218	201	182	163	143	134
60°	194	193	192	185	179	168	156	142	128	111	103
65°	156	156	155	151	146	138	128	116	102	87	80
70°	134	134	133	129	124	116	106	94	81	68	61
75°	117	117	116	112	105	98	88	76	64	51	43
80°	101	102	100	95	90	81	72	61	48	35	28
85°	85	86	84	80	73	67	57	46	33	20	13
90°	70	70	69	66	60	51	42	31	19	6	2
95°	56	56	53	50	44	37	28	17	6	0	0
100°	41	41	39	36	30	23	15	5	0	0	0
105°	27	27	25	22	17	11	3	0	0	0	0
110°	15	15	13	10	6	1	0	0	0	0	0
115°	3	4	3	1	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0	0	1
125°	0	0	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: E395344
CATALOG NUMBER: L1769

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: E395344
 CATALOG NUMBER: L1769

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1076	1076	1076	1076	1076	1076	1076	1076	1076	1076
2.5°	1073	1073	1072	1071	1070	1070	1070	1068	1069	1069
5°	1063	1063	1061	1059	1058	1056	1057	1054	1054	1055
7.5°	1048	1046	1042	1040	1039	1036	1036	1033	1032	1032
10°	1025	1022	1017	1014	1011	1006	1002	998	999	997
12.5°	994	987	980	972	967	959	953	945	949	943
15°	955	942	930	917	906	899	890	882	884	879
17.5°	903	891	872	857	844	830	823	812	811	812
20°	846	831	810	793	774	757	748	741	733	735
22.5°	787	769	745	722	706	681	667	657	647	651
25°	730	706	678	653	628	602	582	566	562	558
27.5°	674	641	608	573	545	521	492	471	470	460
30°	614	572	538	495	457	427	397	379	373	363
32.5°	550	501	462	412	372	341	312	291	287	281
35°	479	432	381	331	297	267	244	229	221	220
37.5°	408	357	310	265	235	210	193	181	174	175
40°	339	290	251	216	189	170	156	144	141	141
42.5°	279	240	205	178	158	140	128	120	116	115
45°	230	200	171	150	131	117	106	99	95	95
47.5°	194	169	145	126	111	98	87	81	78	77
50°	165	144	124	108	93	81	72	67	64	64
55°	125	107	91	76	64	54	45	39	37	36
60°	96	79	65	52	39	29	20	14	11	11
65°	73	58	44	29	18	7	1	0	0	0
70°	53	39	25	11	2	0	0	0	0	0
75°	36	22	8	0	0	0	0	0	0	0
80°	21	7	0	0	0	0	0	0	0	0
85°	6	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	1	1	1	1	0
120°	0	0	1	1	1	1	1	1	1	1
125°	0	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: E395344
CATALOG NUMBER: L1769

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
175°	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)