

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: P11418

Luminaire Tested: **L505WW639**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: P11418
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L505WW639
Description: STASIS T6 WALL WASH HID TRACK FIXTURE
Light Source: BIPIN G12 BASE CLEAR T6 POWER BALL LAMP
HID CERAMIC HID LAMP
CMH39T6/U/G12 39 WATTS
Ballast/Driver: -

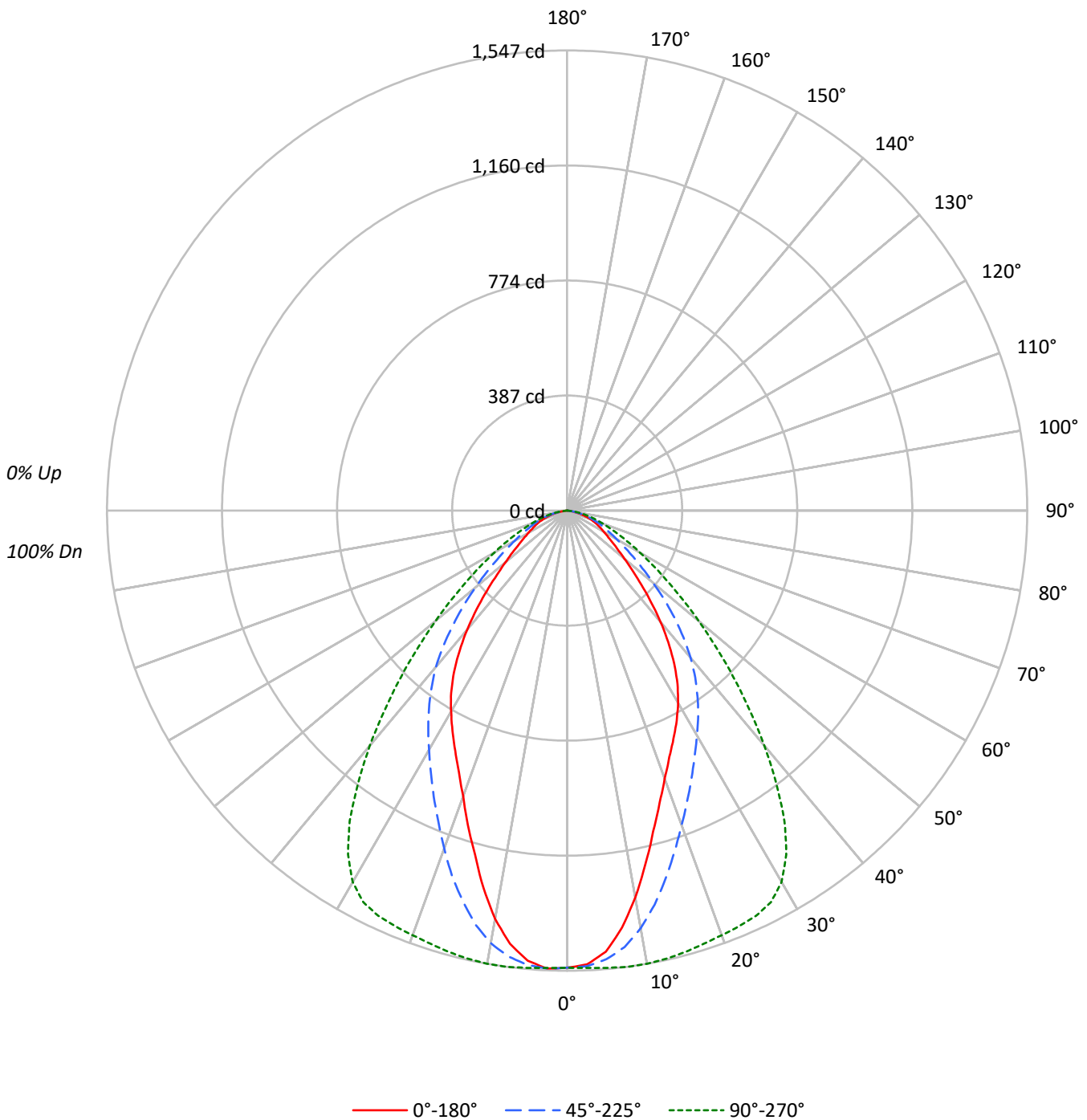
Summary

Lumens per Lamp: 3400 (1 lamp)
Luminaire Lumens: 2465.9 lumens
Efficiency: 72.5%
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 1.33 / 1.07
Luminous Opening: Rectangular (W 0.54' x L: 0.4' x H: 0')
CIE Type: Direct

Input Watts (W): 39
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	86	86	86	86	84	84	84	84	81	81	81	77	77	77	74	74	74	73						73													
1	81	78	75	73	79	76	74	72	73	71	70	71	69	68	68	67	66	64						64													
2	75	70	66	63	73	69	65	62	66	63	60	64	61	59	62	60	58	56						56													
3	69	63	58	54	68	62	57	54	60	56	53	58	55	52	56	54	51	50						50													
4	64	57	52	48	63	56	51	47	54	50	47	53	49	46	51	48	46	44						44													
5	60	52	46	42	59	51	46	42	50	45	42	48	44	41	47	44	41	39						39													
6	56	48	42	38	55	47	42	38	46	41	37	45	40	37	43	40	37	36						36													
7	52	44	38	34	51	43	38	34	42	37	34	41	37	34	40	36	33	32						32													
8	49	40	35	31	48	40	35	31	39	34	31	38	34	31	37	33	31	29						29													
9	46	37	32	28	45	37	32	28	36	32	28	35	31	28	35	31	28	27						27													
10	43	35	30	26	43	34	29	26	34	29	26	33	29	26	33	29	26	25						25													

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	77161	77161	77161
5°	75037	77758	76549
10°	67290	78861	71062
15°	58054	79831	62212
20°	51234	81152	54600
25°	46862	83255	49355
30°	43245	83591	45216
35°	38426	78078	40633
40°	32047	67632	34340
45°	24991	56017	27121
50°	19603	45064	21165
55°	16192	35623	17330
60°	14258	28314	15161
65°	13304	22808	14017
70°	11889	18788	12770
75°	9504	15517	10668
80°	5782	10408	7228
85°	576	2304	576



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	143.1	5.8	4.2
10°-20°	374.4	15.2	11.0
20°-30°	507.7	20.6	14.9
30°-40°	536.5	21.8	15.8
40°-50°	420.3	17.0	12.4
50°-60°	259.7	10.5	7.6
60°-70°	148.0	6.0	4.4
70°-80°	68.3	2.8	2.0
80°-90°	8.1	0.3	0.2
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°	1025.1	41.6	30.2
0°-40°	1561.6	63.3	45.9
0°-60°	2241.5	90.9	65.9
0°-90°	2465.9	100.0	72.5
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°	2465.9	100.0	72.5

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1537	1537	1537	1537	1537	
5°	1489	1514	1543	1533	1519	137
15°	1117	1280	1536	1358	1197	314
25°	846	990	1503	1061	891	390
35°	627	764	1274	810	663	388
45°	352	511	789	541	382	276
55°	185	270	407	287	198	169
65°	112	138	192	145	118	110
75°	49	60	80	65	55	53
85°	1	2	4	3	1	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°
0°	1537	1537	1537	1537	1537	1537	1537	1537	1537	1537	1537
2.5°	1527	1526	1526	1526	1525	1526	1525	1525	1529	1530	1531
5°	1489	1486	1488	1491	1489	1492	1494	1493	1498	1504	1510
7.5°	1414	1416	1418	1422	1423	1430	1433	1435	1447	1455	1466
10°	1320	1320	1319	1329	1331	1343	1348	1355	1371	1387	1405
12.5°	1217	1216	1217	1225	1231	1242	1252	1258	1282	1304	1330
15°	1117	1119	1116	1127	1133	1147	1156	1164	1189	1214	1244
17.5°	1032	1033	1033	1040	1047	1062	1071	1080	1104	1132	1162
20°	959	959	960	967	972	986	996	1003	1026	1055	1085
22.5°	897	899	900	905	911	925	931	939	960	984	1014
25°	846	845	846	853	856	868	876	882	901	923	951
27.5°	797	796	797	802	807	818	824	831	849	871	895
30°	746	745	745	753	756	769	775	780	798	819	843
32.5°	690	690	691	697	703	715	721	727	745	766	791
35°	627	628	629	636	642	656	663	670	689	710	734
37.5°	558	560	562	569	577	591	598	608	628	651	677
40°	489	489	492	497	506	523	531	539	563	586	614
42.5°	418	418	417	427	436	451	458	467	493	517	546
45°	352	352	354	363	369	386	392	402	423	451	479
47.5°	297	296	298	304	311	325	331	340	361	384	414
50°	251	251	252	257	263	274	280	285	303	325	350
52.5°	214	214	216	219	223	232	236	243	258	276	296
55°	185	185	186	188	192	199	203	208	219	234	251
57.5°	161	162	162	164	167	172	175	179	189	199	213
60°	142	142	142	144	146	150	152	156	163	172	183
62.5°	126	125	125	126	128	131	133	135	142	148	155
65°	112	112	112	113	115	117	120	121	123	126	132
67.5°	97	96	97	97	99	101	102	103	107	111	115
70°	81	80	81	81	82	84	85	86	89	92	95
72.5°	65	65	65	66	66	68	69	70	72	74	76
75°	49	49	50	50	51	52	52	53	55	56	58
77.5°	35	35	35	35	36	36	37	37	38	39	40
80°	20	20	20	21	21	22	22	22	23	23	24
82.5°	5	5	5	6	6	7	7	8	9	10	11
85°	1	1	1	1	1	1	1	1	1	1	1
87.5°	1	1	1	1	1	1	1	1	1	1	0
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	112.5°
0°	1537	1537	1537	1537	1537	1537	1537	1537	1537	1537	1537
2.5°	1533	1533	1537	1537	1537	1538	1538	1539	1540	1539	1540
5°	1514	1519	1524	1528	1532	1535	1538	1542	1543	1543	1542
7.5°	1480	1491	1501	1510	1521	1529	1532	1543	1545	1547	1539
10°	1425	1443	1463	1482	1501	1515	1527	1538	1544	1547	1530
12.5°	1357	1391	1414	1443	1472	1493	1514	1531	1538	1543	1515
15°	1280	1312	1355	1393	1432	1464	1490	1516	1529	1536	1491
17.5°	1201	1248	1290	1336	1387	1428	1465	1500	1518	1527	1461
20°	1125	1169	1222	1274	1334	1388	1441	1480	1507	1519	1424
22.5°	1055	1099	1151	1211	1280	1346	1408	1462	1496	1512	1385
25°	990	1034	1084	1148	1222	1301	1369	1440	1482	1503	1341
27.5°	928	968	1020	1085	1164	1248	1333	1408	1458	1484	1292
30°	873	918	961	1023	1104	1188	1278	1358	1414	1442	1232
32.5°	820	856	903	961	1033	1114	1198	1282	1341	1371	1158
35°	764	801	844	896	957	1030	1107	1186	1241	1274	1072
37.5°	707	742	782	827	877	940	1007	1076	1125	1154	980
40°	646	680	716	754	795	845	902	959	1001	1032	881
42.5°	578	613	644	678	712	749	793	843	884	906	781
45°	511	543	575	602	630	659	697	739	770	789	687
47.5°	443	472	500	525	547	574	602	638	663	678	595
50°	376	405	429	451	469	492	516	544	563	577	508
52.5°	319	341	363	384	401	422	439	462	476	486	430
55°	270	289	306	322	337	355	370	389	401	407	362
57.5°	228	242	256	269	284	298	312	325	335	340	303
60°	192	203	214	227	238	250	260	271	279	282	254
62.5°	163	172	181	191	199	209	218	226	232	234	213
65°	138	144	151	158	165	173	180	186	190	192	176
67.5°	120	122	127	131	136	143	147	152	156	157	145
70°	99	102	106	110	114	119	121	125	127	128	119
72.5°	80	82	84	88	91	95	98	101	103	104	97
75°	60	63	65	67	70	73	75	77	79	80	75
77.5°	42	43	45	47	49	52	54	56	57	57	54
80°	25	26	28	29	31	32	34	35	36	36	34
82.5°	11	12	13	14	14	16	16	18	19	19	17
85°	2	2	3	3	4	3	4	4	4	4	4
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	1537	1537	1537
2.5°	1541	1540	1541
5°	1533	1521	1519
7.5°	1512	1480	1469
10°	1477	1419	1394
12.5°	1425	1334	1300
15°	1358	1243	1197
17.5°	1287	1152	1109
20°	1209	1066	1022
22.5°	1131	991	951
25°	1061	929	891
27.5°	992	870	835
30°	929	814	780
32.5°	869	759	726
35°	810	699	663
37.5°	749	636	594
40°	686	564	524
42.5°	614	491	450
45°	541	422	382
47.5°	471	356	319
50°	402	301	271
52.5°	341	254	231
55°	287	217	198
57.5°	242	186	171
60°	204	162	151
62.5°	173	141	132
65°	145	123	118
67.5°	124	109	103
70°	105	92	87
72.5°	85	74	70
75°	65	58	55
77.5°	46	42	40
80°	29	27	25
82.5°	14	12	9
85°	3	1	1
87.5°	0	0	1
90°	0	0	0

(END OF REPORT)