

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: 249p123

Luminaire Tested: **LF4025139AH**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-46-04  
Report Number: 249p123  
Test Lab: METALUX LABORATORIES  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: LF4025139AH  
Description: SPAN T5 WALL WASH, SPECULAR REFLECTOR WITH BLADE LOUVER  
Light Source: ONE - PHILIPS - F39T5/841HO - 3500 LUMENS - 39 WATTS  
Ballast/Driver: QUICKTRONIC QTP2X39-24T5HO/UNV PSN

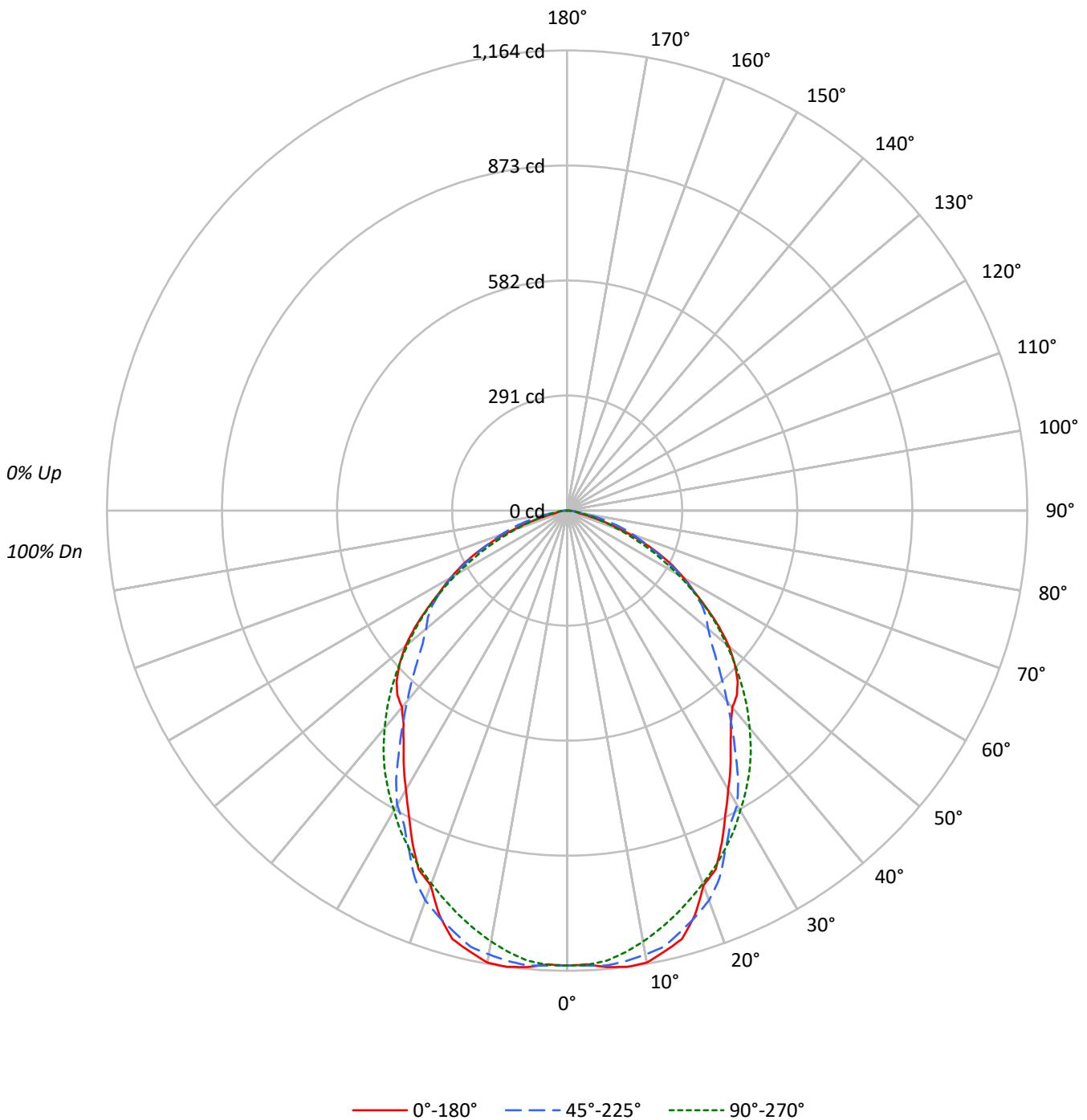
**Summary**

Lumens per Lamp: 3500 (1 lamp)  
Luminaire Lumens: 2497.9 lumens  
Efficiency: 71.4%  
Efficacy: 64.0 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.14 / 1.18  
Luminous Opening: Rectangular (W 2.79' x L: 0.29' 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

TEST NUMBER: 249p123  
CATALOG NUMBER: LF4025139AH

### Luminous Intensity Polar Plot





TEST NUMBER: 249p123  
 CATALOG NUMBER: LF4025139AH

**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	85	85	85	85	83	83	83	83	79	79	79	76	76	76	73	73	73	71
1	79	76	73	71	77	74	72	69	71	69	67	68	67	65	66	64	63	62
2	72	67	63	59	70	66	62	58	63	60	57	61	58	56	59	56	54	53
3	66	59	54	50	65	58	53	49	56	52	49	54	51	48	53	50	47	46
4	61	53	47	43	60	52	47	43	51	46	42	49	45	42	47	44	41	40
5	57	48	42	38	55	47	42	37	46	41	37	44	40	37	43	39	36	35
6	52	43	37	33	51	43	37	33	42	37	33	40	36	32	39	35	32	31
7	49	40	34	30	48	39	33	29	38	33	29	37	32	29	36	32	29	28
8	46	36	31	27	44	36	30	27	35	30	26	34	30	26	33	29	26	25
9	43	34	28	24	42	33	28	24	32	27	24	32	27	24	31	27	24	23
10	40	31	26	22	39	31	26	22	30	25	22	29	25	22	29	25	22	21

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15216	15216	15216
5°	15380	15327	15168
10°	15585	15303	14860
15°	15356	15109	14493
20°	14195	14757	14124
25°	13507	13813	13784
30°	12441	13128	13372
35°	11636	11958	12975
40°	11217	10855	12391
45°	11404	9983	11685
50°	10982	9563	10818
55°	9934	9565	9864
60°	8989	8910	8566
65°	7914	7664	7069
70°	5991	6841	5295
75°	3167	5516	3729
80°	1827	2817	2588
85°	2882	2275	1517



TEST NUMBER: 249p123  
 CATALOG NUMBER: LF4025139AH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	109.5	4.4	3.1
10°-20°	307.9	12.3	8.8
20°-30°	435.0	17.4	12.4
30°-40°	474.5	19.0	13.6
40°-50°	448.5	18.0	12.8
50°-60°	368.4	14.7	10.5
60°-70°	238.0	9.5	6.8
70°-80°	97.8	3.9	2.8
80°-90°	18.3	0.7	0.5
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°	852.4	34.1	24.4
0°-40°	1326.9	53.1	37.9
0°-60°	2143.8	85.8	61.3
0°-90°	2497.9	100.0	71.4
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°	2497.9	100.0	71.4

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1151	1151	1151	1151	1151	
5°	1159	1160	1155	1142	1143	111
15°	1122	1120	1104	1076	1059	311
25°	926	933	947	977	945	424
35°	721	710	741	823	804	454
45°	610	576	534	602	625	466
55°	431	426	415	384	428	387
65°	253	253	245	217	226	248
75°	62	74	108	106	73	76
85°	19	12	15	20	10	17
90°	0	0	0	0	0	



TEST NUMBER: 249p123  
 CATALOG NUMBER: LF4025139AH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1151	1151	1151	1151	1151
2.5°	1149	1154	1152	1148	1150
5°	1159	1160	1155	1142	1143
7.5°	1164	1160	1149	1133	1127
10°	1161	1161	1140	1117	1107
12.5°	1142	1137	1130	1098	1084
15°	1122	1120	1104	1076	1059
17.5°	1074	1083	1078	1055	1032
20°	1009	1018	1049	1034	1004
22.5°	982	971	1007	1009	976
25°	926	933	947	977	945
27.5°	867	871	894	941	913
30°	815	813	860	907	876
32.5°	769	760	805	867	841
35°	721	710	741	823	804
37.5°	680	661	683	772	763
40°	650	620	629	711	718
42.5°	635	592	580	650	673
45°	610	576	534	602	625
47.5°	575	549	495	552	575
50°	534	515	465	494	526
52.5°	485	474	444	436	478
55°	431	426	415	384	428
57.5°	381	373	377	334	375
60°	340	328	337	290	324
62.5°	299	292	292	249	274
65°	253	253	245	217	226
67.5°	204	210	209	195	180
70°	155	165	177	170	137
72.5°	107	119	143	142	101
75°	62	74	108	106	73
77.5°	30	34	72	77	52
80°	24	17	37	59	34
82.5°	23	14	19	40	21
85°	19	12	15	20	10
87.5°	10	9	13	13	3
90°	0	0	0	0	0

(END OF REPORT)