

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: 249p119

Luminaire Tested: **LF4025239AH**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-46-04  
Report Number: 249p119  
Test Lab: METALUX LABORATORIES  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: LF4025239AH  
Description: SPAN T5 WALL WASH, SPECULAR REFLECTOR WITH BLADE LOUVER  
Light Source: TWO - PHILIPS - F39T5/841HO - 3500 LUMENS - 39 WATTS  
Ballast/Driver: QUICKTRONIC QTP2X39-24T5HO/UNV PSN

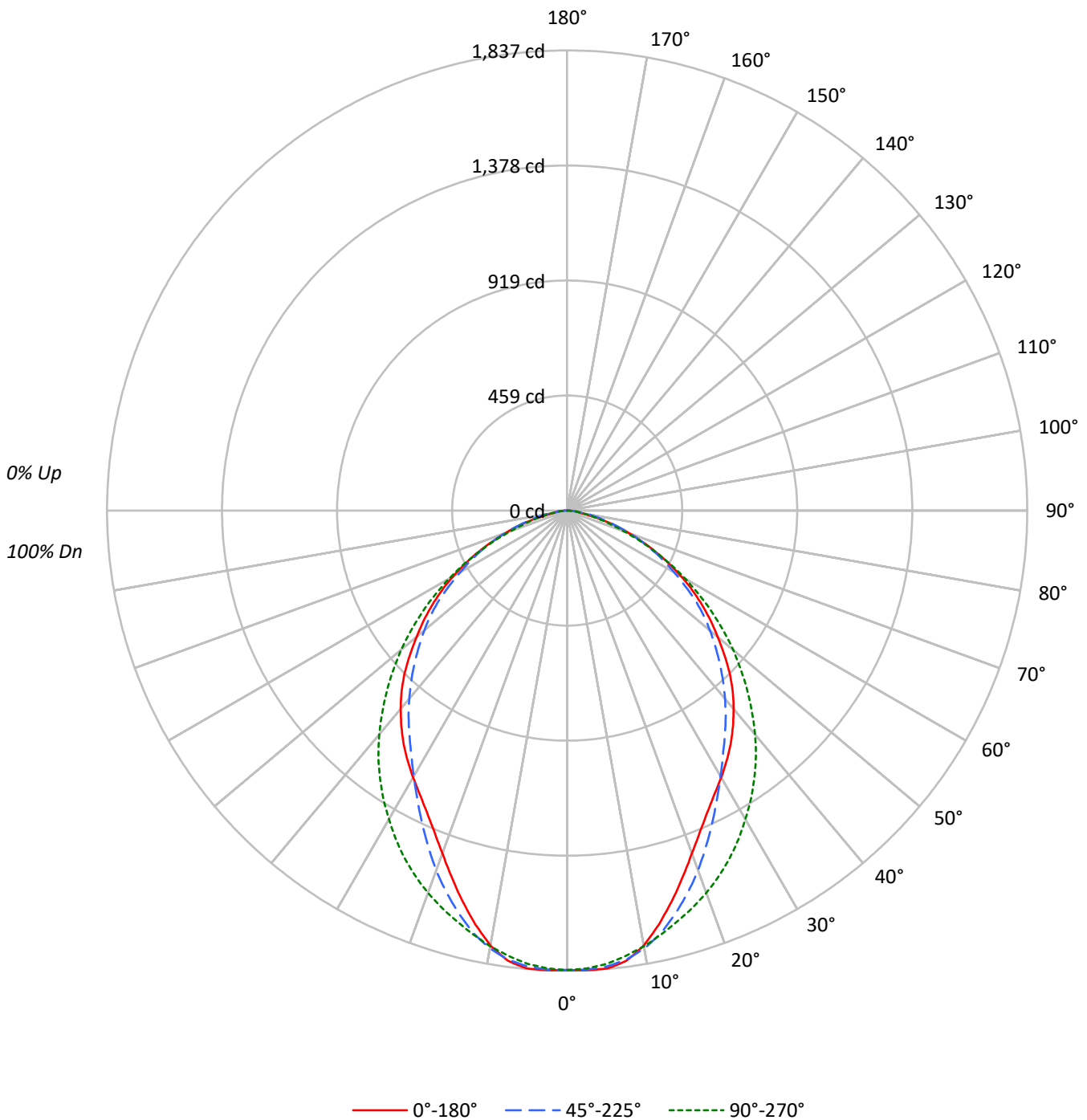
**Summary**

Lumens per Lamp: 3500 (2 lamps)  
Luminaire Lumens: 3853.9 lumens  
Efficiency: 55.1%  
Efficacy: 54.3 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.16 / 1.17  
Luminous Opening: Rectangular (W 2.79' x L: 0.29' x H: 0')  
CIE Type: Direct

Input Watts (W): 71  
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									70									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	66	66	66	66	64	64	64	64	61	61	61	59	59	59	56	56	56	55																				
1	61	58	56	54	59	57	55	53	55	53	52	53	51	50	51	50	49	48																				
2	56	51	48	45	54	50	47	45	48	46	44	47	45	43	45	43	42	41																				
3	51	46	42	38	50	45	41	38	43	40	37	42	39	37	40	38	36	35																				
4	47	41	36	33	46	40	36	33	39	35	32	38	34	32	36	34	31	30																				
5	43	37	32	29	42	36	32	29	35	31	28	34	31	28	33	30	28	27																				
6	40	33	29	25	39	33	28	25	32	28	25	31	27	25	30	27	25	23																				
7	37	30	26	23	37	30	26	22	29	25	22	28	25	22	28	24	22	21																				
8	35	28	23	20	34	27	23	20	27	23	20	26	23	20	25	22	20	19																				
9	33	26	21	18	32	25	21	18	25	21	18	24	21	18	24	20	18	17																				
10	31	24	20	17	30	24	19	17	23	19	17	22	19	17	22	19	17	16																				

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

	0°	45°	90°
0°	24245	24245	24245
5°	24351	24231	24099
10°	23666	23827	23706
15°	22089	22815	23239
20°	20483	21496	22846
25°	19341	20012	22361
30°	18776	18684	21722
35°	18365	17704	21028
40°	17844	16912	20139
45°	17144	16097	19032
50°	16124	15301	17790
55°	15165	14382	16272
60°	13881	13035	14409
65°	12199	11824	12105
70°	10165	10204	9238
75°	7610	8172	6742
80°	3806	6471	5025
85°	5915	4550	3185



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	172.4	4.5	2.5
10°-20°	466.9	12.1	6.7
20°-30°	647.5	16.8	9.2
30°-40°	724.4	18.8	10.3
40°-50°	695.6	18.0	9.9
50°-60°	571.0	14.8	8.2
60°-70°	377.8	9.8	5.4
70°-80°	163.8	4.3	2.3
80°-90°	34.6	0.9	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°	1286.7	33.4	18.4
0°-40°	2011.2	52.2	28.7
0°-60°	3277.8	85.1	46.8
0°-90°	3853.9	100.0	55.1
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°	3853.9	100.0	55.1

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1834	1834	1834	1834	1834	
5°	1835	1834	1826	1814	1816	173
15°	1614	1624	1667	1701	1698	453
25°	1326	1318	1372	1501	1533	614
35°	1138	1109	1097	1209	1303	711
45°	917	888	861	892	1018	705
55°	658	632	624	620	706	587
65°	390	380	378	379	387	387
75°	149	153	160	153	132	158
85°	39	25	30	39	21	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1834	1834	1834	1834	1834
2.5°	1837	1838	1834	1826	1829
5°	1835	1834	1826	1814	1816
7.5°	1813	1812	1808	1794	1793
10°	1763	1768	1775	1769	1766
12.5°	1692	1702	1728	1737	1733
15°	1614	1624	1667	1701	1698
17.5°	1534	1544	1600	1661	1663
20°	1456	1463	1528	1615	1624
22.5°	1386	1387	1450	1562	1581
25°	1326	1318	1372	1501	1533
27.5°	1275	1259	1296	1434	1480
30°	1230	1206	1224	1362	1423
32.5°	1185	1158	1157	1286	1365
35°	1138	1109	1097	1209	1303
37.5°	1087	1058	1040	1130	1238
40°	1034	1002	980	1049	1167
42.5°	979	945	921	969	1093
45°	917	888	861	892	1018
47.5°	851	826	802	820	941
50°	784	759	744	751	865
52.5°	722	693	686	684	785
55°	658	632	624	620	706
57.5°	593	570	557	558	624
60°	525	507	493	498	545
62.5°	457	444	436	440	465
65°	390	380	378	379	387
67.5°	324	318	320	320	311
70°	263	258	264	260	239
72.5°	206	202	209	202	179
75°	149	153	160	153	132
77.5°	88	95	121	115	96
80°	50	46	85	85	66
82.5°	45	30	44	59	42
85°	39	25	30	39	21
87.5°	21	15	22	20	6
90°	0	0	0	0	0

(END OF REPORT)