

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: 249p107

Luminaire Tested: **LF402524AH**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: 249p107
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: LF402524AH
Description: ONE T5 LAMP SPAN LF402524 AH WALL WASH TRAC FIXTURE WITH
SPECULAR REFLECTOR, BLADE LOUVER
Light Source: ONE - PHILIPS - F24T5HO/830 - 1750 LUMENS - 24 WATTS
Ballast/Driver: SYLVANIA QTP2X39-24T5HO/UNV

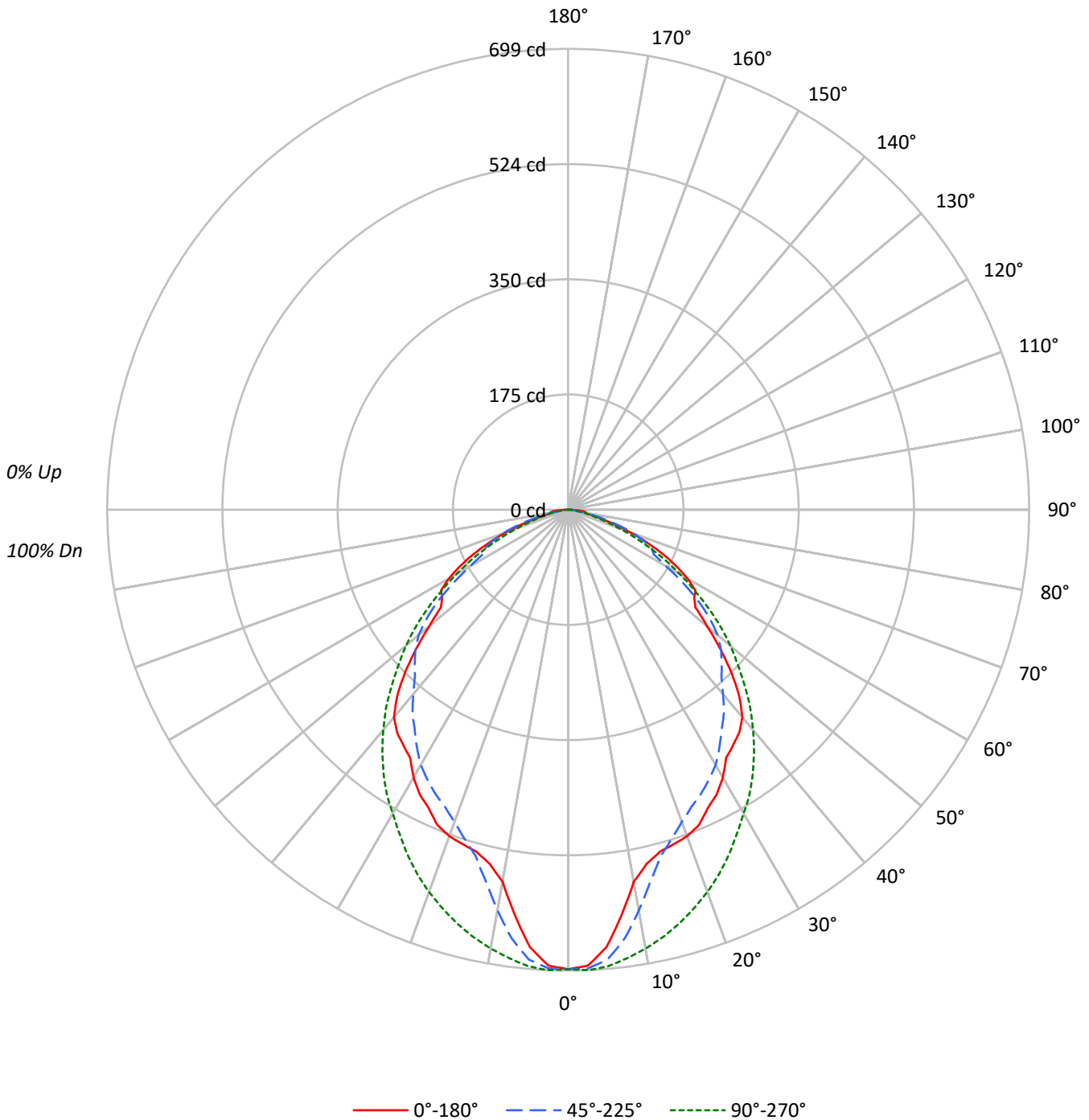
Summary

Lumens per Lamp: 1750 (1 lamp)
Luminaire Lumens: 1397.2 lumens
Efficiency: 79.8%
Efficacy: 51.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.15 / 1.15
Luminous Opening: Rectangular (W 1.88' x L: 0.29' x H: 0')
CIE Type: Direct

Input Watts (W): 27
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	95	95	95	95	93	93	93	93	89	89	89	85	85	85	81	81	81	80																			
1	88	84	81	79	86	83	80	77	79	77	75	76	74	73	73	72	70	69																			
2	81	75	70	65	78	73	68	65	70	66	63	68	64	62	65	63	60	59																			
3	74	66	60	55	72	65	59	55	63	58	54	60	56	53	58	55	52	50																			
4	68	59	52	47	66	58	52	47	56	51	46	54	50	46	53	49	45	44																			
5	63	53	46	41	61	52	46	41	51	45	41	49	44	40	48	43	40	38																			
6	58	48	41	36	57	47	41	36	46	40	36	45	40	36	43	39	35	34																			
7	54	44	37	32	53	43	37	32	42	36	32	41	36	32	40	35	32	30																			
8	50	40	34	29	49	40	33	29	39	33	29	38	32	29	37	32	29	27																			
9	47	37	31	26	46	36	30	26	36	30	26	35	30	26	34	29	26	25																			
10	44	34	28	24	43	34	28	24	33	28	24	32	27	24	32	27	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13719	13719	13719
5°	13159	13534	13732
10°	11452	12331	13511
15°	10942	11065	13245
20°	11038	10557	12924
25°	10859	10337	12531
30°	10659	10159	12091
35°	10476	9755	11726
40°	10560	9378	11202
45°	9742	9158	10550
50°	8421	9064	9829
55°	7996	8236	8888
60°	8227	6731	7716
65°	7312	6520	6334
70°	5755	6043	4661
75°	3574	4563	3194
80°	3060	2267	2154
85°	4742	2032	1355



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	63.1	4.5	3.6
10°-20°	161.5	11.6	9.2
20°-30°	229.4	16.4	13.1
30°-40°	263.0	18.8	15.0
40°-50°	259.7	18.6	14.8
50°-60°	208.8	14.9	11.9
60°-70°	142.5	10.2	8.1
70°-80°	57.0	4.1	3.3
80°-90°	12.3	0.9	0.7
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°	454.0	32.5	25.9
0°-40°	716.9	51.3	41.0
0°-60°	1185.5	84.8	67.7
0°-90°	1397.2	100.0	79.8
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°	1397.2	100.0	79.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	697	697	697	697	697	
5°	666	672	685	693	695	60
15°	537	537	543	610	650	153
25°	500	494	476	485	577	231
35°	436	417	406	389	488	274
45°	350	351	329	309	379	268
55°	233	215	240	223	259	212
65°	157	155	140	141	136	154
75°	47	47	60	50	42	56
85°	21	12	9	11	6	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	697	697	697	697	697
2.5°	692	693	696	698	699
5°	666	672	685	693	695
7.5°	620	631	656	681	686
10°	573	585	617	663	676
12.5°	550	553	577	638	664
15°	537	537	543	610	650
17.5°	532	525	523	579	634
20°	527	518	504	547	617
22.5°	518	508	488	515	598
25°	500	494	476	485	577
27.5°	487	473	462	456	554
30°	469	460	447	432	532
32.5°	446	438	427	410	512
35°	436	417	406	389	488
37.5°	426	406	388	369	463
40°	411	394	365	350	436
42.5°	384	378	344	329	409
45°	350	351	329	309	379
47.5°	313	318	314	286	349
50°	275	282	296	265	321
52.5°	243	245	270	244	291
55°	233	215	240	223	259
57.5°	229	207	206	201	226
60°	209	201	171	179	196
62.5°	184	179	146	159	166
65°	157	155	140	141	136
67.5°	128	128	125	120	108
70°	100	101	105	96	81
72.5°	72	73	83	68	59
75°	47	47	60	50	42
77.5°	30	24	39	42	29
80°	27	15	20	31	19
82.5°	26	13	11	21	12
85°	21	12	9	11	6
87.5°	10	7	7	7	2
90°	0	0	0	0	0

(END OF REPORT)