

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: E395153

Luminaire Tested: **H7-424**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395153
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7-424
Description: HALO RECESSED INC - H7 HOUSING, WALL WASH
Light Source: 100A19, 1750 LUMENS
Ballast/Driver: -

Summary

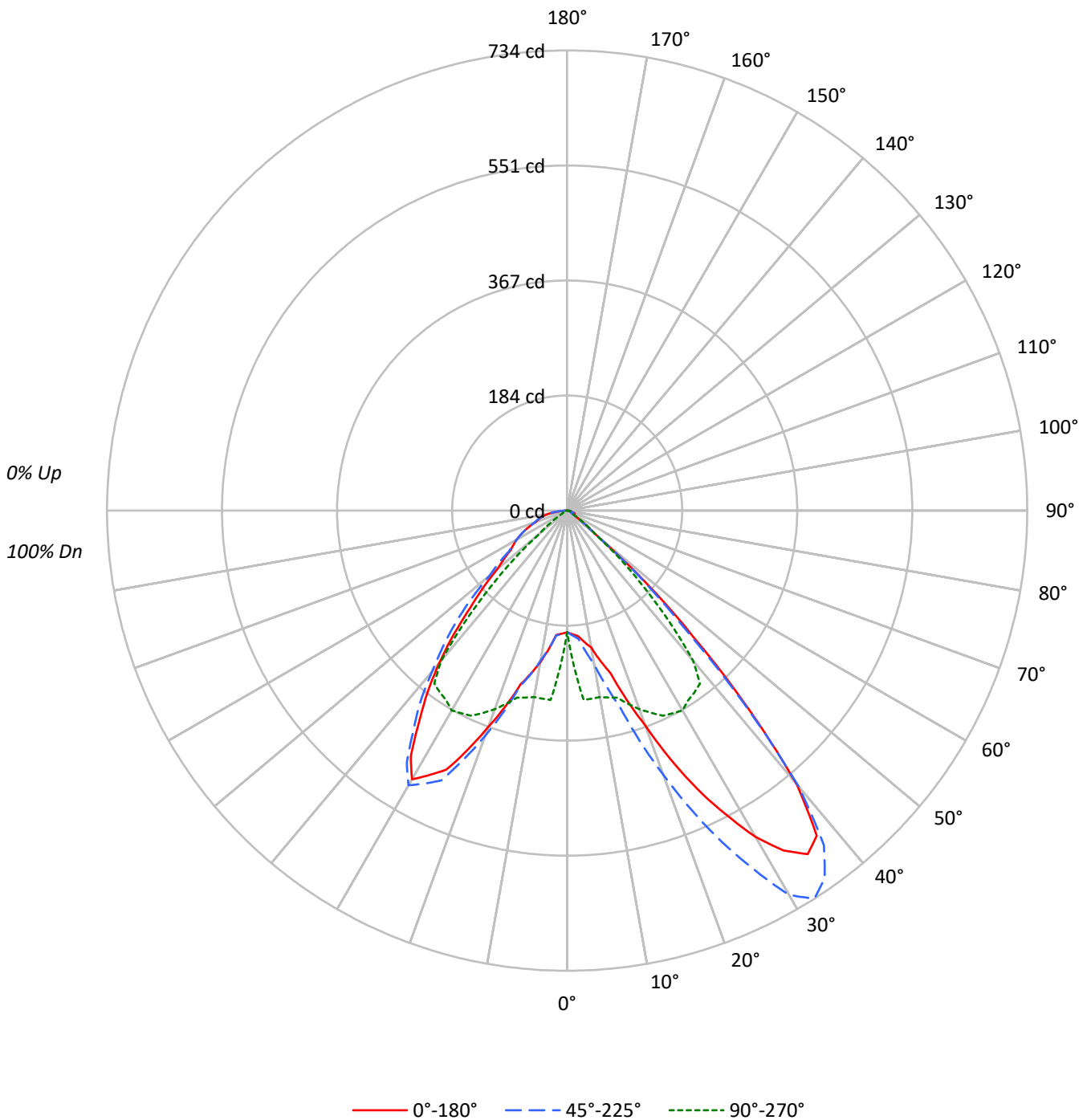
Lumens per Lamp: 1750 (1 lamp)
Luminaire Lumens: 1027.1 lumens
Efficiency: 58.7%
Efficacy: 10.3 lumens/watt
Spacing Criteria (0/90/45): 1.97 / 1.83 / 1.58
Luminous Opening: (L: 0 ' x W: -0.37 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 100
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				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	70	70	70	70	68	68	68	68	65	65	65		62	62	62		60	60	60	59
1	65	63	61	59	64	62	60	58	59	58	57		57	56	55		55	54	53	52
2	61	57	53	51	59	56	53	50	54	51	49		52	50	48		50	48	47	46
3	56	51	47	44	55	50	47	44	49	45	43		47	44	42		46	43	41	40
4	52	46	42	38	51	45	41	38	44	40	38		43	40	37		42	39	37	36
5	48	42	37	34	47	41	37	34	40	36	33		39	36	33		38	35	33	32
6	45	38	33	30	44	37	33	30	36	33	30		35	32	29		35	32	29	28
7	42	35	30	27	41	34	30	27	33	29	26		32	29	26		32	29	26	25
8	39	32	27	24	38	31	27	24	30	26	24		30	26	24		29	26	23	22
9	36	29	24	21	35	29	24	21	28	24	21		27	24	21		27	24	21	20
10	34	27	22	19	33	26	22	19	26	22	19		25	22	19		25	21	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminous shape not found,		
5°	reference photometric report, or contact		
10°	the photometric lab for calculations.		
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	21.1	2.1	1.2
10°-20°	92.6	9.0	5.3
20°-30°	242.4	23.6	13.9
30°-40°	346.2	33.7	19.8
40°-50°	201.1	19.6	11.5
50°-60°	57.5	5.6	3.3
60°-70°	35.0	3.4	2.0
70°-80°	22.8	2.2	1.3
80°-90°	8.4	0.8	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°	356.1	34.7	20.4
0°-40°	702.3	68.4	40.1
0°-60°	960.9	93.6	54.9
0°-90°	1027.1	100.0	58.7
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°	1027.1	100.0	58.7

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	194	194	194	194	194	
5°	201	205	303	200	199	20
15°	269	323	309	290	287	81
25°	489	583	361	475	456	228
35°	669	716	354	427	412	401
45°	284	261	174	249	217	228
55°	17	15	22	113	110	23
65°	9	7	7	74	74	11
75°	7	5	4	45	44	9
85°	5	3	2	13	11	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	194	194	194	194	194	194	194	194	194	194	194
5°	201	198	202	202	205	205	209	209	210	232	303
10°	222	220	225	232	240	249	260	266	270	279	302
15°	269	268	278	288	304	323	342	353	360	345	309
20°	365	365	379	394	420	448	478	502	517	470	337
25°	489	490	501	522	551	583	632	663	693	610	361
30°	601	605	611	639	676	708	731	739	754	664	368
32.5°	643	646	649	680	710	734	748	741	734	649	359
35°	669	672	666	688	706	716	715	701	691	612	354
37.5°	654	653	645	656	667	673	674	662	650	573	348
40°	570	567	563	563	570	574	574	564	550	485	312
45°	284	280	277	265	261	261	262	259	251	228	174
50°	60	59	59	56	57	57	56	57	59	63	59
55°	17	15	15	14	16	15	16	16	18	19	22
60°	12	9	9	8	9	8	9	8	9	9	8
65°	9	7	8	6	7	7	8	7	8	8	7
70°	13	12	13	12	12	11	11	9	9	8	6
75°	7	5	6	5	6	5	6	6	6	5	4
80°	6	4	5	4	5	4	5	4	5	4	4
85°	5	3	4	3	4	3	4	3	4	4	2
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	194	194	194	194	194	194	194	194	194	194
5°	206	204	203	200	200	198	199	199	199	199
10°	262	257	250	244	243	240	242	240	243	245
15°	346	327	311	297	290	286	283	281	281	287
20°	489	447	409	390	382	369	360	355	357	367
25°	652	567	502	487	475	460	445	437	441	456
30°	723	617	522	519	506	493	481	475	478	495
32.5°	717	597	488	489	476	463	452	446	447	464
35°	686	558	438	443	427	414	404	398	397	412
37.5°	643	515	392	398	385	371	363	356	353	366
40°	536	436	343	346	335	325	319	313	309	317
45°	254	253	258	256	249	239	231	225	216	217
50°	78	127	166	165	162	155	150	149	146	145
55°	27	70	111	113	113	110	108	112	112	110
60°	15	46	90	93	93	93	94	94	94	93
65°	13	30	68	72	74	75	77	78	75	74
70°	11	20	49	53	55	55	56	56	55	53
75°	7	14	39	45	45	45	45	45	44	44
80°	6	13	33	34	34	34	34	34	31	31
85°	4	7	16	13	13	12	12	11	11	11
90°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)