

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: E395599

Luminaire Tested: **H274-405SC**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: E395599  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H274-405SC  
Description: HALO RECESSED FLUOR - CLEAR SPECULAR REFLECTOR  
Light Source: QUAD PL13, 860 LUMENS  
Ballast/Driver: -

**Summary**

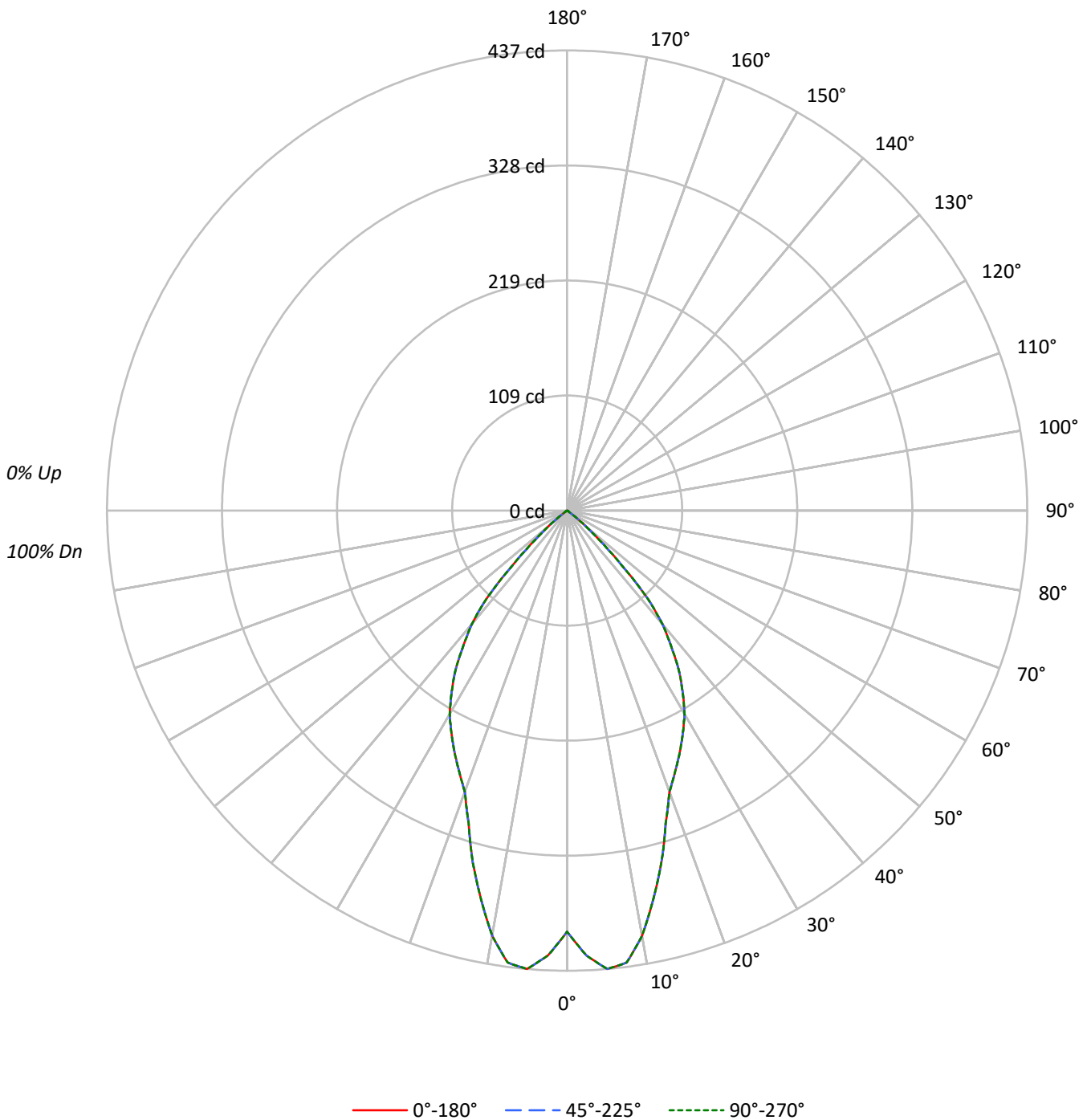
Lumens per Lamp: 860 (1 lamp)  
Luminaire Lumens: 431.4 lumens  
Efficiency: 50.2%  
Efficacy: 27.0 lumens/watt  
Spacing Criteria (0/90/45): 0.88 / 0.88 / 1  
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 16  
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	60	60	60	60	58	58	58	58	56	56	56	53	53	53	51	51	51	50
1	57	55	54	53	56	54	53	52	52	51	50	50	50	49	49	48	47	47
2	54	51	49	47	53	50	48	47	49	47	46	47	46	45	46	45	44	43
3	51	47	45	43	50	47	44	42	45	43	41	44	42	41	43	41	40	39
4	48	44	41	39	47	43	40	38	42	40	38	41	39	37	40	38	37	36
5	45	41	38	35	44	40	37	35	39	37	35	38	36	34	38	36	34	33
6	43	38	35	32	42	37	34	32	37	34	32	36	34	32	35	33	32	31
7	40	35	32	30	40	35	32	30	34	32	30	34	31	29	33	31	29	28
8	38	33	30	28	38	33	30	28	32	29	27	32	29	27	31	29	27	26
9	36	31	28	26	36	31	28	26	30	27	26	30	27	25	29	27	25	25
10	34	29	26	24	34	29	26	24	28	26	24	28	26	24	28	25	24	23

**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°	40.7	9.4	4.7
10°-20°	96.1	22.3	11.2
20°-30°	116.3	27.0	13.5
30°-40°	114.1	26.5	13.3
40°-50°	58.4	13.5	6.8
50°-60°	4.9	1.1	0.6
60°-70°	0.9	0.2	0.1
70°-80°	0.0	0.0	0.0
80°-90°	0.0	0.0	0.0
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°	253.1	58.7	29.4
0°-40°	367.2	85.1	42.7
0°-60°	430.5	99.8	50.1
0°-90°	431.4	100.0	50.2
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°	431.4	100.0	50.2

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	400	400	400	400	400	
5°	437	437	437	437	437	41
15°	346	346	346	346	346	96
25°	253	253	253	253	253	116
35°	185	185	185	185	185	114
45°	73	73	73	73	73	58
55°	2	2	2	2	2	5
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	400	400	400	400	400	400	400	400	400
2.5°	423	423	423	423	423	423	423	423	423
5°	437	437	437	437	437	437	437	437	437
7.5°	433	433	433	433	433	433	433	433	433
10°	410	410	410	410	410	410	410	410	410
12.5°	378	378	378	378	378	378	378	378	378
15°	346	346	346	346	346	346	346	346	346
17.5°	311	311	311	311	311	311	311	311	311
20°	284	284	284	284	284	284	284	284	284
22.5°	268	268	268	268	268	268	268	268	268
25°	253	253	253	253	253	253	253	253	253
27.5°	238	238	238	238	238	238	238	238	238
30°	223	223	223	223	223	223	223	223	223
32.5°	204	204	204	204	204	204	204	204	204
35°	185	185	185	185	185	185	185	185	185
37.5°	162	162	162	162	162	162	162	162	162
40°	141	141	141	141	141	141	141	141	141
42.5°	113	113	113	113	113	113	113	113	113
45°	73	73	73	73	73	73	73	73	73
47.5°	41	41	41	41	41	41	41	41	41
50°	22	22	22	22	22	22	22	22	22
52.5°	7	7	7	7	7	7	7	7	7
55°	2	2	2	2	2	2	2	2	2
57.5°	2	2	2	2	2	2	2	2	2
60°	1	1	1	1	1	1	1	1	1
62.5°	1	1	1	1	1	1	1	1	1
65°	1	1	1	1	1	1	1	1	1
67.5°	1	1	1	1	1	1	1	1	1
70°	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)