

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: E395200

Luminaire Tested: **H7-425**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: E395200  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H7-425  
Description: HALO RECESSED INC - H7 HOUSING, SCOOP TRIM WALL WASH  
Light Source: 60A19, 860 LUMENS  
Ballast/Driver: -

**Summary**

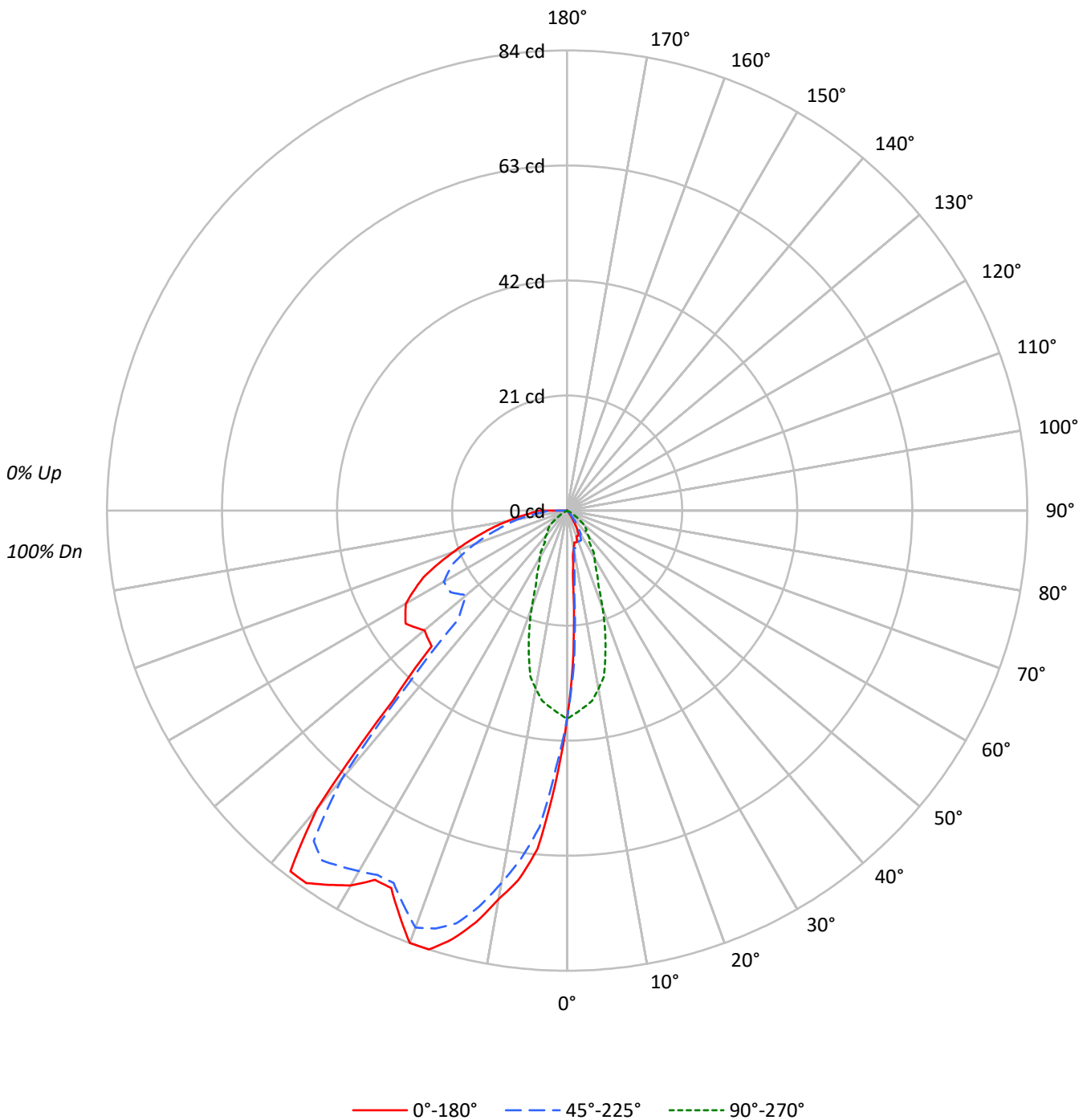
Lumens per Lamp: 860 (1 lamp)  
Luminaire Lumens: 92.5 lumens  
Efficiency: 10.8%  
Efficacy: 1.5 lumens/watt  
Spacing Criteria (0/90/45): 1.58 / 0.65 / 1.27  
Luminous Opening: (L: 0 ' x W: -0.34 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 60  
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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	13	13	13	13	13	13	13	13	12	12	12	11	11	11	11	11	11	11	11	11	11
1	12	11	11	10	11	11	11	10	11	10	10	10	10	10	10	10	9	10	10	9	9
2	11	10	9	9	10	10	9	9	9	9	8	9	9	8	9	8	8	9	8	8	8
3	10	9	8	7	10	9	8	7	8	8	7	8	8	7	8	7	7	8	7	7	7
4	9	8	7	6	9	8	7	6	8	7	6	7	7	6	7	7	6	7	7	6	6
5	8	7	6	6	8	7	6	6	7	6	5	7	6	5	6	6	5	6	6	5	5
6	8	7	6	5	8	6	6	5	6	5	5	6	5	5	6	5	5	6	5	5	5
7	7	6	5	4	7	6	5	4	6	5	4	6	5	4	5	5	4	5	5	4	4
8	7	5	5	4	7	5	5	4	5	5	4	5	4	4	5	4	4	5	4	4	4
9	6	5	4	4	6	5	4	4	5	4	4	5	4	4	5	4	4	5	4	4	3
10	6	5	4	3	6	5	4	3	5	4	3	4	4	3	4	4	3	4	4	3	3

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

	0°	90°	180°
0°	Luminous shape not found, reference photometric report, or contact the photometric lab for calculations.		
5°			
10°			
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°	3.5	3.8	0.4
10°-20°	11.1	12.1	1.3
20°-30°	17.0	18.4	2.0
30°-40°	21.4	23.1	2.5
40°-50°	12.3	13.3	1.4
50°-60°	10.1	10.9	1.2
60°-70°	9.1	9.8	1.1
70°-80°	5.5	6.0	0.6
80°-90°	2.5	2.7	0.3
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°	31.7	34.3	3.7
0°-40°	53.1	57.4	6.2
0°-60°	75.4	81.5	8.8
0°-90°	92.5	100.0	10.8
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°	92.5	100.0	10.8

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	38	38	38	38	38	
5°	12	15	36	58	62	1
15°	6	7	27	78	81	2
25°	5	6	13	75	76	2
35°	1	3	7	78	83	1
45°	0	0	5	28	35	0
55°	0	0	2	26	36	0
65°	0	0	0	23	29	0
75°	0	0	0	13	16	0
85°	0	0	0	5	7	0
90°	0	0	0	3	5	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	38	38	38	38	38	38	38	38	38	38	38
2.5°	26	27	25	27	27	28	30	32	35	37	37
5°	12	12	12	13	14	15	18	23	28	34	36
7.5°	8	8	8	8	9	10	12	16	22	31	35
10°	7	7	7	7	7	7	8	11	16	27	33
12.5°	6	6	6	7	7	7	7	9	13	23	31
15°	6	6	5	6	6	7	7	7	10	19	27
17.5°	6	6	6	6	6	6	7	7	8	15	23
20°	5	5	6	6	6	6	7	7	7	12	19
22.5°	5	5	5	6	6	6	7	7	7	10	15
25°	5	5	5	5	5	6	6	7	7	9	13
27.5°	4	4	4	5	5	5	6	7	7	8	11
30°	3	3	3	4	4	5	5	6	7	8	10
32.5°	2	2	2	3	3	4	5	6	6	8	9
35°	1	1	1	2	2	3	4	5	6	7	7
37.5°	0	0	0	1	1	2	3	5	6	6	7
40°	0	0	0	0	0	1	2	4	5	6	6
42.5°	0	0	0	0	0	1	2	3	4	5	5
45°	0	0	0	0	0	0	1	2	3	5	5
50°	0	0	0	0	0	0	0	1	2	3	4
55°	0	0	0	0	0	0	0	0	1	2	2
60°	0	0	0	0	0	0	0	0	0	1	1
65°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
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°	38	38	38	38	38	38	38	38	38	38
2.5°	38	41	43	45	47	48	49	50	50	50
5°	39	45	49	54	58	60	61	62	62	62
7.5°	39	49	55	61	64	66	68	68	68	68
10°	39	52	60	66	69	71	72	72	72	72
12.5°	39	55	65	71	74	75	77	77	77	77
15°	36	57	69	75	78	79	81	82	82	81
17.5°	33	58	71	78	80	82	84	85	84	84
20°	30	58	72	78	81	83	84	85	85	84
22.5°	25	56	70	75	78	79	80	81	81	80
25°	22	54	68	73	75	76	77	77	77	76
27.5°	18	51	69	73	75	76	77	78	77	76
30°	15	49	69	74	76	77	78	79	79	79
32.5°	13	46	69	74	77	78	80	81	81	81
35°	11	41	69	75	78	80	82	84	84	83
37.5°	9	35	66	72	76	79	82	84	84	83
40°	8	28	53	60	64	66	70	72	73	71
42.5°	7	19	34	40	43	45	48	49	49	47
45°	5	12	20	25	28	30	34	35	36	35
50°	4	7	12	18	24	28	32	34	35	34
55°	2	6	12	20	26	30	34	36	36	36
60°	1	6	12	20	26	30	33	34	34	34
65°	0	5	11	18	23	25	27	29	29	29
70°	0	4	9	15	18	19	21	22	22	22
75°	0	2	6	11	13	13	15	16	16	16
80°	0	1	4	7	9	9	11	11	11	11
85°	0	1	2	4	5	6	7	7	7	7
90°	0	0	1	2	3	3	4	4	5	5

(END OF REPORT)