

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: E395900

Luminaire Tested: **H7-79**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: E395900  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H7-79  
Description: HALO RECESSED INC. - H7 HOUSING, 2" PINHOLE  
Light Source: 50PAR30NFL, 768 LUMENS  
Ballast/Driver: -

**Summary**

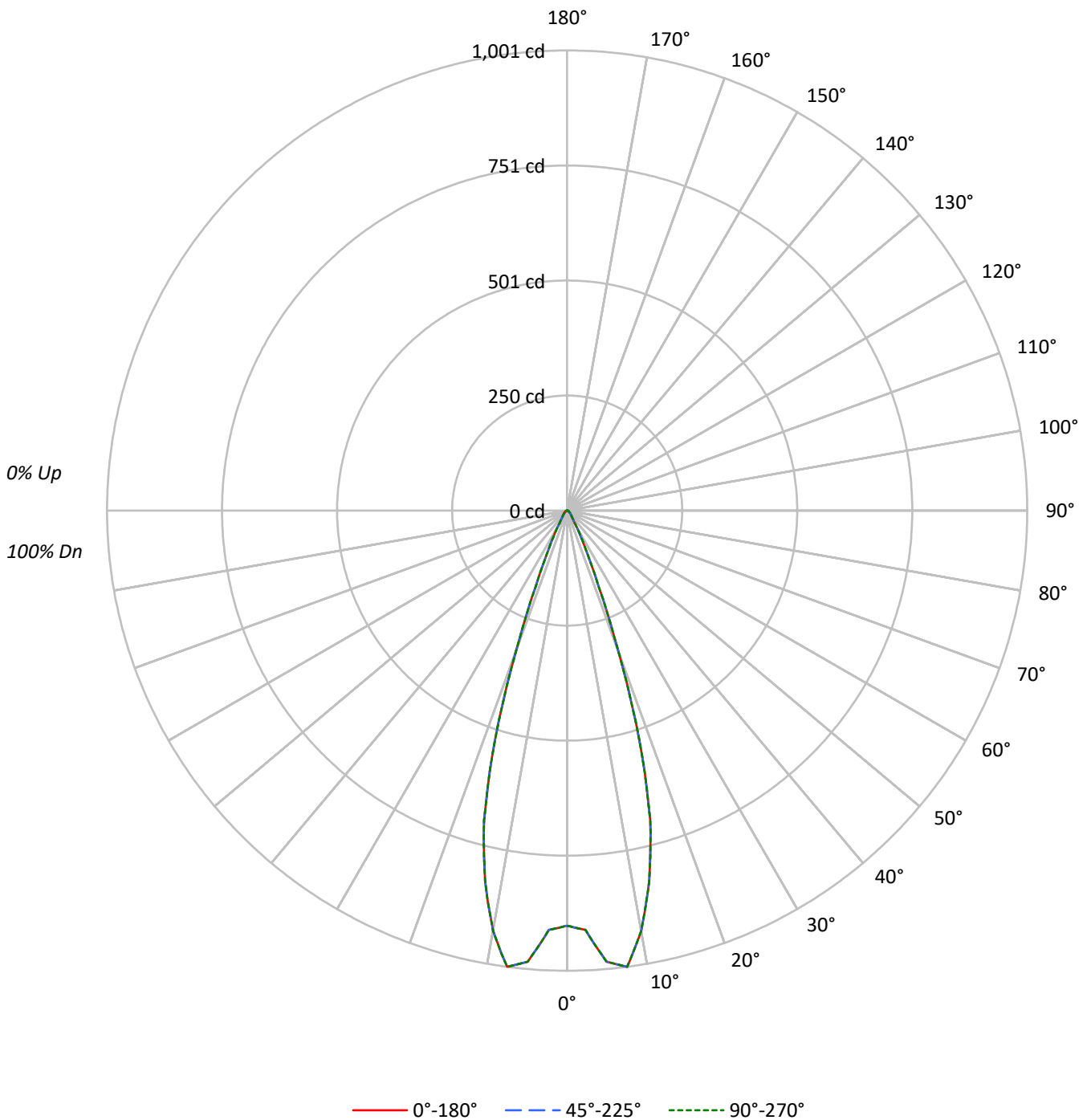
Lumens per Lamp: 768 (1 lamp)  
Luminaire Lumens: 364.2 lumens  
Efficiency: 47.4%  
Efficacy: 7.3 lumens/watt  
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.54  
Luminous Opening: (L: 0 ' x W: -0.17 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 50  
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	50	30	10	0			
RCR																								
0	56	56	56	56	55	55	55	55	53	53	53	50	50	50	48	48	48	47	47	47	45	45		
1	54	53	52	51	53	52	51	50	50	49	49	48	48	47	47	46	46	45	45	45	43	43		
2	52	50	49	47	51	49	48	47	48	47	46	47	46	45	45	45	44	43	43	43	41	41		
3	50	48	46	44	49	47	45	44	46	44	43	45	44	43	44	43	42	41	41	41	39	39		
4	48	46	43	42	48	45	43	42	44	42	41	43	42	41	42	41	40	40	40	40	38	38		
5	47	44	41	40	46	43	41	40	42	41	39	42	40	39	41	40	39	38	38	38	36	36		
6	45	42	40	38	45	42	39	38	41	39	38	40	39	37	40	38	37	37	37	37	35	35		
7	44	40	38	37	43	40	38	36	39	38	36	39	37	36	38	37	36	35	35	35	33	33		
8	42	39	37	35	42	39	37	35	38	36	35	38	36	35	37	36	35	34	34	34	32	32		
9	41	37	35	34	41	37	35	34	37	35	34	37	35	34	36	35	34	33	33	33	31	31		
10	40	36	34	33	39	36	34	33	36	34	33	35	34	33	35	34	32	32	32	32	30	30		

**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°	92.3	25.3	12.0
10°-20°	180.5	49.6	23.5
20°-30°	57.9	15.9	7.5
30°-40°	13.8	3.8	1.8
40°-50°	8.1	2.2	1.1
50°-60°	5.3	1.5	0.7
60°-70°	3.1	0.9	0.4
70°-80°	2.8	0.8	0.4
80°-90°	0.5	0.1	0.1
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°	330.6	90.8	43.1
0°-40°	344.4	94.6	44.8
0°-60°	357.8	98.2	46.6
0°-90°	364.2	100.0	47.4
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°	364.2	100.0	47.4

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	903	903	903	903	903	
5°	985	985	985	985	985	92
15°	698	698	698	698	698	180
25°	105	105	105	105	105	58
35°	20	20	20	20	20	14
45°	10	10	10	10	10	8
55°	6	6	6	6	6	5
65°	3	3	3	3	3	3
75°	3	3	3	3	3	3
85°	0	0	0	0	0	1
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°	903	903	903	903	903	903	903	903	903
2.5°	913	913	913	913	913	913	913	913	913
5°	985	985	985	985	985	985	985	985	985
7.5°	1001	1001	1001	1001	1001	1001	1001	1001	1001
10°	928	928	928	928	928	928	928	928	928
12.5°	825	825	825	825	825	825	825	825	825
15°	698	698	698	698	698	698	698	698	698
17.5°	522	522	522	522	522	522	522	522	522
20°	322	322	322	322	322	322	322	322	322
22.5°	179	179	179	179	179	179	179	179	179
25°	105	105	105	105	105	105	105	105	105
27.5°	65	65	65	65	65	65	65	65	65
30°	41	41	41	41	41	41	41	41	41
32.5°	26	26	26	26	26	26	26	26	26
35°	20	20	20	20	20	20	20	20	20
37.5°	16	16	16	16	16	16	16	16	16
40°	14	14	14	14	14	14	14	14	14
42.5°	12	12	12	12	12	12	12	12	12
45°	10	10	10	10	10	10	10	10	10
47.5°	9	9	9	9	9	9	9	9	9
50°	8	8	8	8	8	8	8	8	8
52.5°	7	7	7	7	7	7	7	7	7
55°	6	6	6	6	6	6	6	6	6
57.5°	5	5	5	5	5	5	5	5	5
60°	4	4	4	4	4	4	4	4	4
62.5°	3	3	3	3	3	3	3	3	3
65°	3	3	3	3	3	3	3	3	3
67.5°	3	3	3	3	3	3	3	3	3
70°	3	3	3	3	3	3	3	3	3
72.5°	3	3	3	3	3	3	3	3	3
75°	3	3	3	3	3	3	3	3	3
77.5°	2	2	2	2	2	2	2	2	2
80°	2	2	2	2	2	2	2	2	2
82.5°	1	1	1	1	1	1	1	1	1
85°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)