

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: E395897

Luminaire Tested: **H7-302**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: E395897  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H7-302  
Description: HALO RECESSED INC. - H7 HOUSING, LOUVERED TRIM  
Light Source: 50R20FL, 440 LUMENS  
Ballast/Driver: -

**Summary**

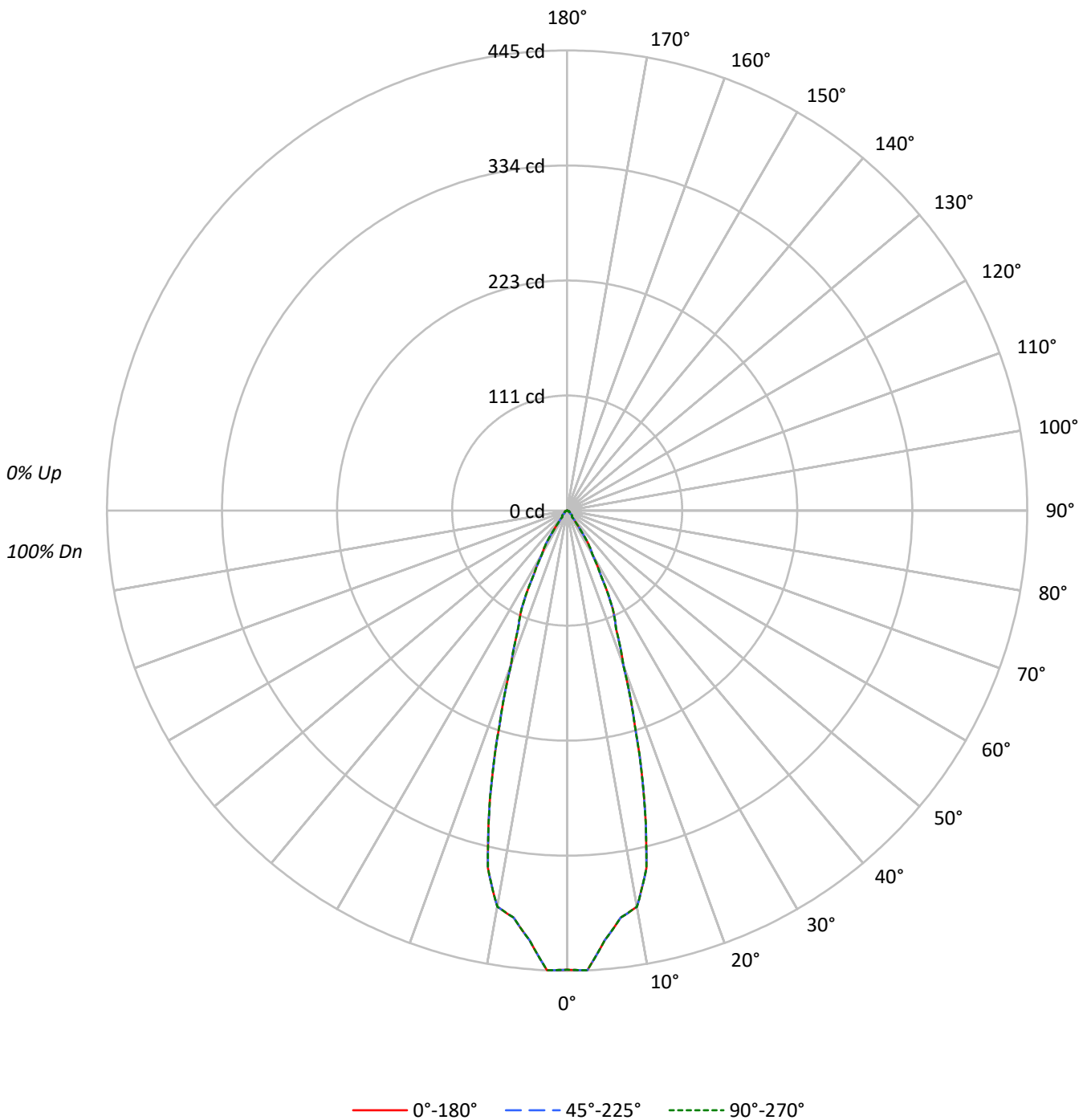
Lumens per Lamp: 440 (1 lamp)  
Luminaire Lumens: 185.3 lumens  
Efficiency: 42.1%  
Efficacy: 3.7 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.56  
Luminous Opening: (L: 0 ' x W: -0.32 ' x H: 0 '  
CIE Type: Direct

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



TEST NUMBER: E395897  
CATALOG NUMBER: H7-302

### Luminous Intensity Polar Plot





TEST NUMBER: E395897  
 CATALOG NUMBER: H7-302

**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	50	50	50	50	49	49	49	49	47	47	47	45	45	45	43	43	43	42
1	48	47	46	45	47	46	45	45	44	44	43	43	42	42	41	41	41	40
2	46	44	43	41	45	44	42	41	42	41	40	41	40	39	40	39	38	38
3	44	42	40	39	43	41	40	38	40	39	38	39	38	37	38	37	36	36
4	42	40	38	36	42	39	37	36	38	37	35	38	36	35	37	36	35	34
5	41	38	36	34	40	37	35	34	37	35	34	36	35	33	35	34	33	33
6	39	36	34	32	39	36	34	32	35	33	32	35	33	32	34	33	32	31
7	38	34	32	31	37	34	32	31	34	32	31	33	32	30	33	31	30	30
8	36	33	31	29	36	33	31	29	32	31	29	32	30	29	32	30	29	29
9	35	32	30	28	35	31	29	28	31	29	28	31	29	28	30	29	28	27
10	34	30	28	27	33	30	28	27	30	28	27	30	28	27	29	28	27	26

**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°			



TEST NUMBER: E395897  
 CATALOG NUMBER: H7-302

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	38.9	21.0	8.8
10°-20°	76.8	41.4	17.5
20°-30°	45.2	24.4	10.3
30°-40°	14.2	7.6	3.2
40°-50°	4.4	2.4	1.0
50°-60°	2.6	1.4	0.6
60°-70°	2.0	1.1	0.5
70°-80°	1.3	0.7	0.3
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°	160.9	86.8	36.6
0°-40°	175.0	94.5	39.8
0°-60°	182.0	98.2	41.4
0°-90°	185.3	100.0	42.1
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°	185.3	100.0	42.1

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	444	444	444	444	444	
5°	417	417	417	417	417	39
15°	288	288	288	288	288	77
25°	104	104	104	104	104	45
35°	20	20	20	20	20	14
45°	7	7	7	7	7	4
55°	3	3	3	3	3	3
65°	2	2	2	2	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: E395897  
 CATALOG NUMBER: H7-302

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	444	444	444	444	444	444	444	444	444
2.5°	445	445	445	445	445	445	445	445	445
5°	417	417	417	417	417	417	417	417	417
7.5°	397	397	397	397	397	397	397	397	397
10°	389	389	389	389	389	389	389	389	389
12.5°	354	354	354	354	354	354	354	354	354
15°	288	288	288	288	288	288	288	288	288
17.5°	218	218	218	218	218	218	218	218	218
20°	159	159	159	159	159	159	159	159	159
22.5°	124	124	124	124	124	124	124	124	124
25°	104	104	104	104	104	104	104	104	104
27.5°	71	71	71	71	71	71	71	71	71
30°	49	49	49	49	49	49	49	49	49
32.5°	38	38	38	38	38	38	38	38	38
35°	20	20	20	20	20	20	20	20	20
37.5°	8	8	8	8	8	8	8	8	8
40°	7	7	7	7	7	7	7	7	7
42.5°	7	7	7	7	7	7	7	7	7
45°	7	7	7	7	7	7	7	7	7
47.5°	4	4	4	4	4	4	4	4	4
50°	3	3	3	3	3	3	3	3	3
52.5°	3	3	3	3	3	3	3	3	3
55°	3	3	3	3	3	3	3	3	3
57.5°	3	3	3	3	3	3	3	3	3
60°	2	2	2	2	2	2	2	2	2
62.5°	2	2	2	2	2	2	2	2	2
65°	2	2	2	2	2	2	2	2	2
67.5°	2	2	2	2	2	2	2	2	2
70°	2	2	2	2	2	2	2	2	2
72.5°	2	2	2	2	2	2	2	2	2
75°	1	1	1	1	1	1	1	1	1
77.5°	1	1	1	1	1	1	1	1	1
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)