

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: E395717

Luminaire Tested: **H7-302**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395717
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: 75R30FL, 900 LUMENS
Ballast/Driver: -

Summary

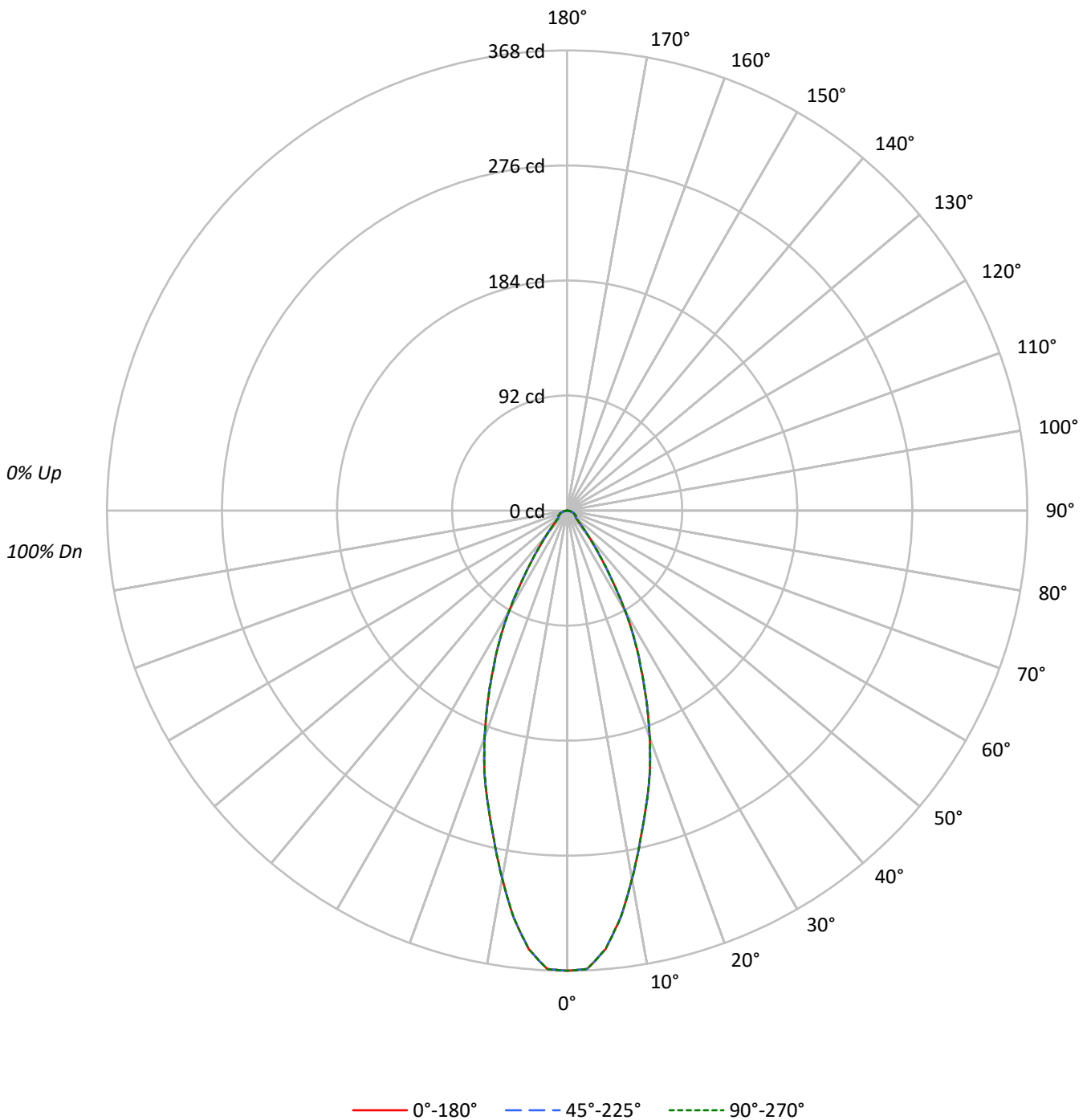
Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 227.0 lumens
Efficiency: 25.2%
Efficacy: 3.0 lumens/watt
Spacing Criteria (0/90/45): 0.65 / 0.65 / 0.7
Luminous Opening: (L: 0 ' x W: -0.32 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 75
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					
RC	80					70					50					30					
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	30	30	30	30	29	29	29	29	28	28	28	27	27	27	26	26	26	25			
1	28	28	27	26	28	27	27	26	26	26	25	25	25	24	24	24	24	23			
2	27	26	25	24	26	25	24	23	24	24	23	24	23	22	23	22	22	22			
3	26	24	23	22	25	24	22	21	23	22	21	22	21	21	22	21	20	20			
4	24	22	21	20	24	22	21	20	22	20	19	21	20	19	21	20	19	19			
5	23	21	19	18	23	21	19	18	20	19	18	20	19	18	19	19	18	17			
6	22	20	18	17	22	20	18	17	19	18	17	19	18	17	18	17	17	16			
7	21	19	17	16	21	18	17	16	18	17	16	18	17	16	18	17	16	15			
8	20	18	16	15	20	18	16	15	17	16	15	17	16	15	17	16	15	15			
9	19	17	15	14	19	17	15	14	16	15	14	16	15	14	16	15	14	14			
10	18	16	14	14	18	16	14	14	16	14	13	15	14	13	15	14	13	13			

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°	31.9	14.0	3.5
10°-20°	68.0	29.9	7.6
20°-30°	64.2	28.3	7.1
30°-40°	32.9	14.5	3.7
40°-50°	11.7	5.2	1.3
50°-60°	7.5	3.3	0.8
60°-70°	6.3	2.8	0.7
70°-80°	3.6	1.6	0.4
80°-90°	1.1	0.5	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°	164.0	72.2	18.2
0°-40°	196.8	86.7	21.9
0°-60°	216.1	95.2	24.0
0°-90°	227.0	100.0	25.2
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°	227.0	100.0	25.2

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	368	368	368	368	368	
5°	352	352	352	352	352	32
15°	244	244	244	244	244	68
25°	140	140	140	140	140	64
35°	50	50	50	50	50	33
45°	14	14	14	14	14	12
55°	8	8	8	8	8	8
65°	6	6	6	6	6	6
75°	3	3	3	3	3	4
85°	1	1	1	1	1	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°	368	368	368	368	368	368	368	368	368
2.5°	367	367	367	367	367	367	367	367	367
5°	352	352	352	352	352	352	352	352	352
7.5°	328	328	328	328	328	328	328	328	328
10°	299	299	299	299	299	299	299	299	299
12.5°	270	270	270	270	270	270	270	270	270
15°	244	244	244	244	244	244	244	244	244
17.5°	220	220	220	220	220	220	220	220	220
20°	193	193	193	193	193	193	193	193	193
22.5°	166	166	166	166	166	166	166	166	166
25°	140	140	140	140	140	140	140	140	140
27.5°	117	117	117	117	117	117	117	117	117
30°	93	93	93	93	93	93	93	93	93
32.5°	69	69	69	69	69	69	69	69	69
35°	50	50	50	50	50	50	50	50	50
37.5°	36	36	36	36	36	36	36	36	36
40°	26	26	26	26	26	26	26	26	26
42.5°	19	19	19	19	19	19	19	19	19
45°	14	14	14	14	14	14	14	14	14
47.5°	11	11	11	11	11	11	11	11	11
50°	9	9	9	9	9	9	9	9	9
52.5°	9	9	9	9	9	9	9	9	9
55°	8	8	8	8	8	8	8	8	8
57.5°	8	8	8	8	8	8	8	8	8
60°	8	8	8	8	8	8	8	8	8
62.5°	7	7	7	7	7	7	7	7	7
65°	6	6	6	6	6	6	6	6	6
67.5°	6	6	6	6	6	6	6	6	6
70°	5	5	5	5	5	5	5	5	5
72.5°	4	4	4	4	4	4	4	4	4
75°	3	3	3	3	3	3	3	3	3
77.5°	3	3	3	3	3	3	3	3	3
80°	2	2	2	2	2	2	2	2	2
82.5°	2	2	2	2	2	2	2	2	2
85°	1	1	1	1	1	1	1	1	1
87.5°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)