

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: E395756

Luminaire Tested: **H7-71**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395756
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7-71
Description: HALO RECESSED INC - H7 HOUSING, DROP OPAL PLASTIC LENS
Light Source: 60A19, 870 LUMENS
Ballast/Driver: -

Summary

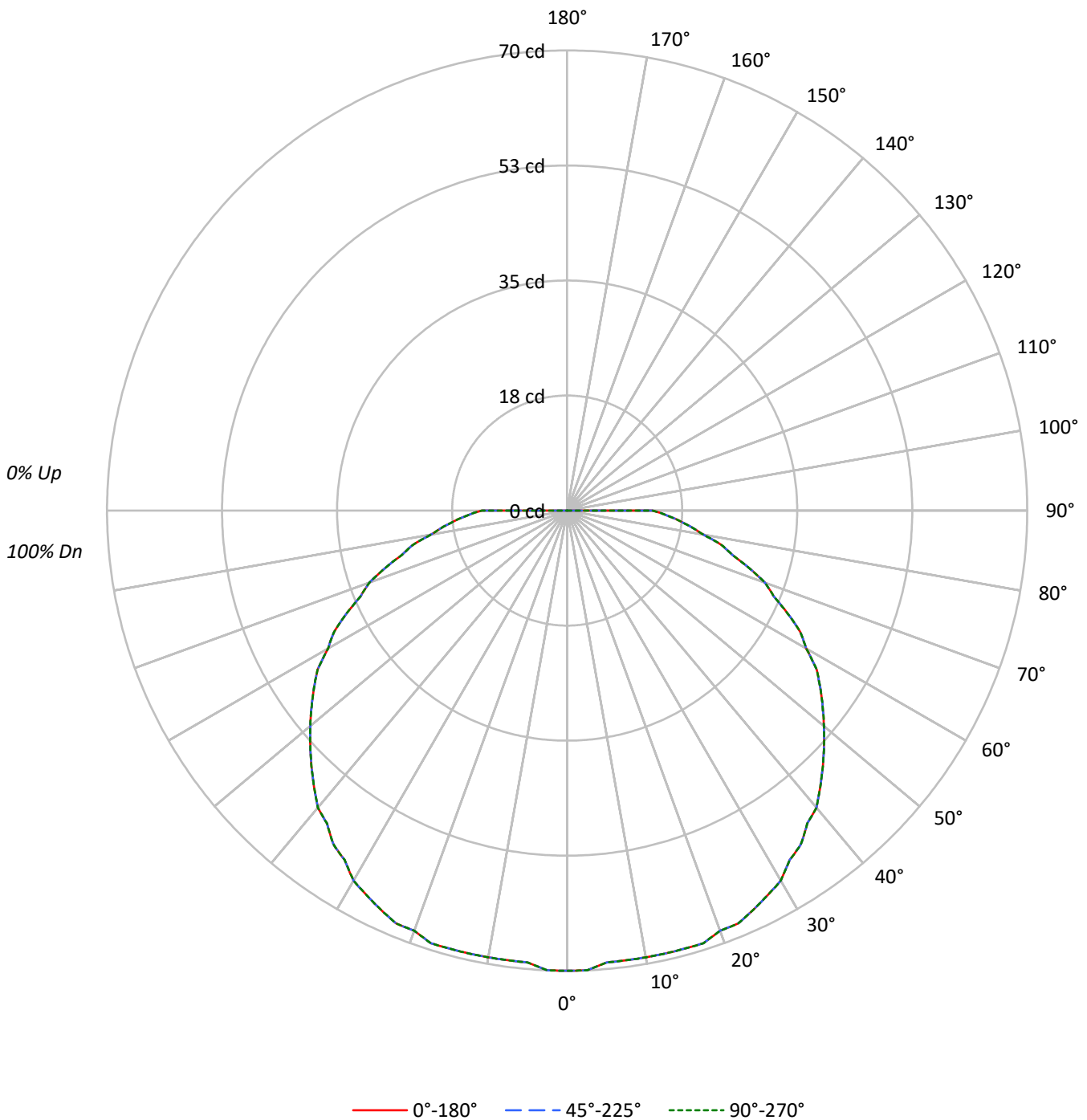
Lumens per Lamp: 870 (1 lamp)
Luminaire Lumens: 263.3 lumens
Efficiency: 30.3%
Efficacy: 4.4 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.49
Luminous Opening: (L: 0 ' x W: -0.43 ' x H: 0 '
CIE Type: Direct

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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	36	36	36	36	35	35	35	35	34	34	34	32	32	32	31	31	31	30
1	32	30	29	27	31	29	28	27	28	27	26	27	26	25	26	25	24	24
2	29	26	23	21	28	25	23	21	24	22	21	23	21	20	22	21	20	19
3	26	22	20	17	25	22	19	17	21	19	17	20	18	17	19	18	16	16
4	24	20	17	14	23	19	16	14	18	16	14	18	16	14	17	15	14	13
5	22	17	14	12	21	17	14	12	16	14	12	16	14	12	15	13	12	11
6	20	16	13	11	19	15	13	11	15	12	10	14	12	10	14	12	10	10
7	18	14	11	9	18	14	11	9	13	11	9	13	11	9	12	11	9	8
8	17	13	10	8	17	13	10	8	12	10	8	12	10	8	11	9	8	7
9	16	12	9	7	16	12	9	7	11	9	7	11	9	7	11	9	7	7
10	15	11	8	7	15	11	8	7	10	8	7	10	8	7	10	8	7	6

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°	6.6	2.5	0.8
10°-20°	19.5	7.4	2.2
20°-30°	30.9	11.7	3.6
30°-40°	38.7	14.7	4.5
40°-50°	42.5	16.1	4.9
50°-60°	42.0	15.9	4.8
60°-70°	36.7	13.9	4.2
70°-80°	27.9	10.6	3.2
80°-90°	18.5	7.0	2.1
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°	57.0	21.7	6.6
0°-40°	95.7	36.4	11.0
0°-60°	180.2	68.5	20.7
0°-90°	263.3	100.0	30.3
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°	263.3	100.0	30.3

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	70	70	70	70	70	
5°	69	69	69	69	69	7
15°	69	69	69	69	69	20
25°	67	67	67	67	67	31
35°	62	62	62	62	62	39
45°	55	55	55	55	55	43
55°	47	47	47	47	47	42
65°	37	37	37	37	37	37
75°	26	26	26	26	26	28
85°	17	17	17	17	17	19
90°	13	13	13	13	13	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	70	70	70	70	70	70	70	70	70
2.5°	70	70	70	70	70	70	70	70	70
5°	69	69	69	69	69	69	69	69	69
7.5°	69	69	69	69	69	69	69	69	69
10°	69	69	69	69	69	69	69	69	69
12.5°	69	69	69	69	69	69	69	69	69
15°	69	69	69	69	69	69	69	69	69
17.5°	69	69	69	69	69	69	69	69	69
20°	68	68	68	68	68	68	68	68	68
22.5°	68	68	68	68	68	68	68	68	68
25°	67	67	67	67	67	67	67	67	67
27.5°	66	66	66	66	66	66	66	66	66
30°	65	65	65	65	65	65	65	65	65
32.5°	63	63	63	63	63	63	63	63	63
35°	62	62	62	62	62	62	62	62	62
37.5°	60	60	60	60	60	60	60	60	60
40°	59	59	59	59	59	59	59	59	59
42.5°	57	57	57	57	57	57	57	57	57
45°	55	55	55	55	55	55	55	55	55
47.5°	53	53	53	53	53	53	53	53	53
50°	51	51	51	51	51	51	51	51	51
52.5°	49	49	49	49	49	49	49	49	49
55°	47	47	47	47	47	47	47	47	47
57.5°	45	45	45	45	45	45	45	45	45
60°	42	42	42	42	42	42	42	42	42
62.5°	40	40	40	40	40	40	40	40	40
65°	37	37	37	37	37	37	37	37	37
67.5°	34	34	34	34	34	34	34	34	34
70°	32	32	32	32	32	32	32	32	32
72.5°	29	29	29	29	29	29	29	29	29
75°	26	26	26	26	26	26	26	26	26
77.5°	24	24	24	24	24	24	24	24	24
80°	21	21	21	21	21	21	21	21	21
82.5°	19	19	19	19	19	19	19	19	19
85°	17	17	17	17	17	17	17	17	17
87.5°	15	15	15	15	15	15	15	15	15
90°	13	13	13	13	13	13	13	13	13

(END OF REPORT)