

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: E395757

Luminaire Tested: **H7-75**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395757
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7-75
Description: HALO RECESSED INC - H7 HOUSING, ALL-GLAS LENS
Light Source: 60A19, 870 LUMENS
Ballast/Driver: -

Summary

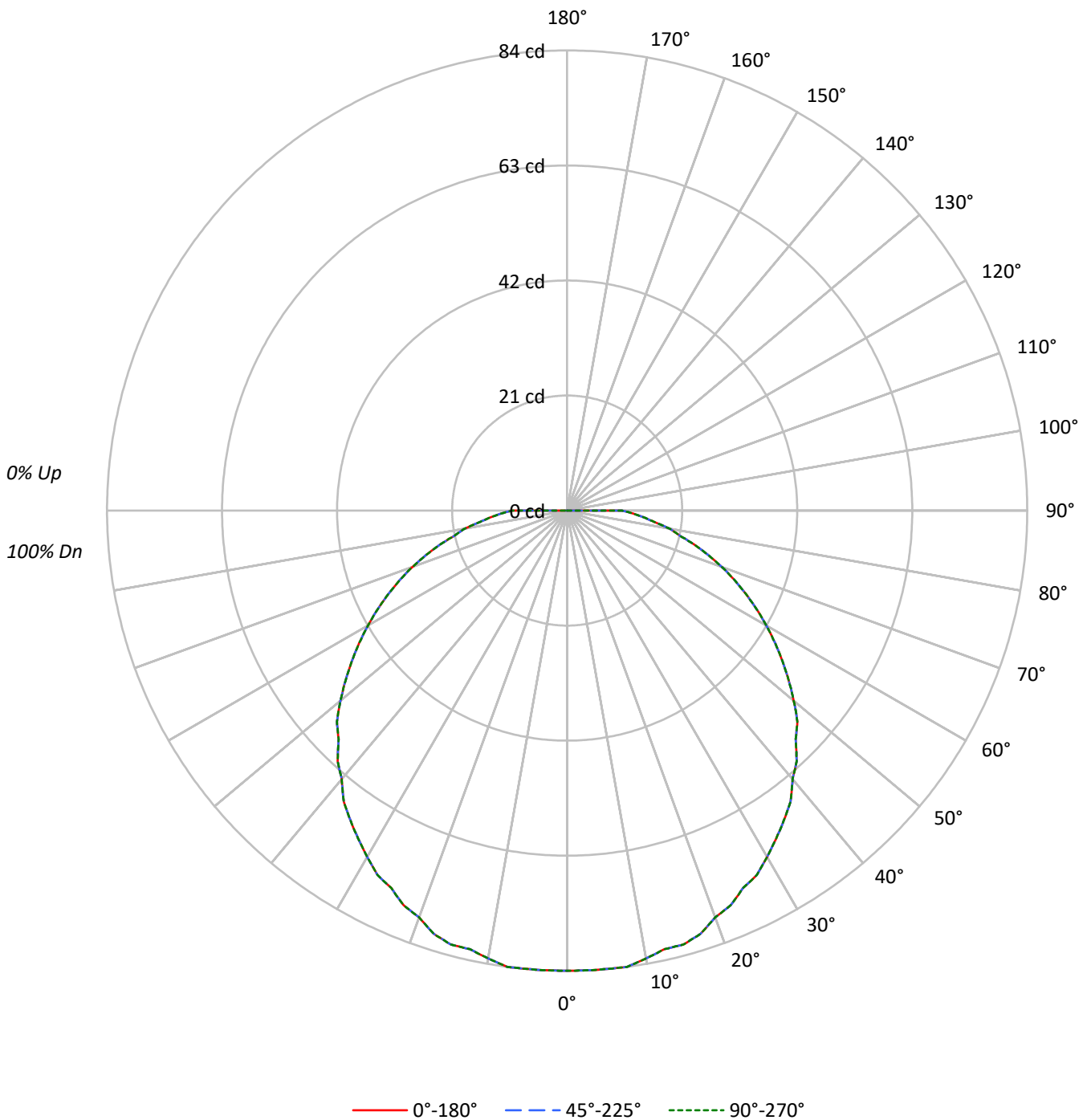
Lumens per Lamp: 870 (1 lamp)
Luminaire Lumens: 274.7 lumens
Efficiency: 31.6%
Efficacy: 4.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41
Luminous Opening: (L: 0 ' x W: -0.67 ' x H: 0.13 '
CIE Type: Direct

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	38	38	38	38	37	37	37	37	35	35	35	34	34	34	32	32	32	32	32	32	32
1	34	32	30	29	33	31	30	28	30	29	28	29	28	27	27	27	26	27	27	26	25
2	30	28	25	23	30	27	25	23	26	24	22	25	23	22	24	22	21	24	22	21	21
3	28	24	21	19	27	23	21	19	23	20	18	22	20	18	21	19	18	21	19	18	17
4	25	21	18	16	24	21	18	16	20	17	16	19	17	15	18	17	15	18	17	15	14
5	23	19	16	14	22	18	16	14	18	15	13	17	15	13	17	15	13	17	15	13	12
6	21	17	14	12	21	17	14	12	16	14	12	15	13	12	15	13	11	15	13	11	11
7	20	15	12	10	19	15	12	10	15	12	10	14	12	10	14	12	10	14	12	10	9
8	18	14	11	9	18	14	11	9	13	11	9	13	11	9	13	11	9	13	11	9	8
9	17	13	10	8	17	13	10	8	12	10	8	12	10	8	12	10	8	12	10	8	8
10	16	12	9	8	16	12	9	7	11	9	7	11	9	7	11	9	7	11	9	7	7

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°	8.0	2.9	0.9
10°-20°	23.1	8.4	2.7
20°-30°	35.2	12.8	4.0
30°-40°	43.2	15.7	5.0
40°-50°	45.8	16.7	5.3
50°-60°	43.0	15.6	4.9
60°-70°	35.7	13.0	4.1
70°-80°	25.5	9.3	2.9
80°-90°	15.4	5.6	1.8
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°	66.3	24.1	7.6
0°-40°	109.4	39.8	12.6
0°-60°	198.2	72.1	22.8
0°-90°	274.7	100.0	31.6
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°	274.7	100.0	31.6

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	84	84	84	84	84	
5°	84	84	84	84	84	8
15°	82	82	82	82	82	23
25°	76	76	76	76	76	35
35°	69	69	69	69	69	43
45°	59	59	59	59	59	46
55°	48	48	48	48	48	43
65°	36	36	36	36	36	36
75°	24	24	24	24	24	25
85°	14	14	14	14	14	15
90°	10	10	10	10	10	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	84	84	84	84	84	84	84	84	84
2.5°	84	84	84	84	84	84	84	84	84
5°	84	84	84	84	84	84	84	84	84
7.5°	84	84	84	84	84	84	84	84	84
10°	83	83	83	83	83	83	83	83	83
12.5°	82	82	82	82	82	82	82	82	82
15°	82	82	82	82	82	82	82	82	82
17.5°	81	81	81	81	81	81	81	81	81
20°	79	79	79	79	79	79	79	79	79
22.5°	78	78	78	78	78	78	78	78	78
25°	76	76	76	76	76	76	76	76	76
27.5°	75	75	75	75	75	75	75	75	75
30°	73	73	73	73	73	73	73	73	73
32.5°	71	71	71	71	71	71	71	71	71
35°	69	69	69	69	69	69	69	69	69
37.5°	67	67	67	67	67	67	67	67	67
40°	64	64	64	64	64	64	64	64	64
42.5°	62	62	62	62	62	62	62	62	62
45°	59	59	59	59	59	59	59	59	59
47.5°	57	57	57	57	57	57	57	57	57
50°	54	54	54	54	54	54	54	54	54
52.5°	51	51	51	51	51	51	51	51	51
55°	48	48	48	48	48	48	48	48	48
57.5°	45	45	45	45	45	45	45	45	45
60°	42	42	42	42	42	42	42	42	42
62.5°	39	39	39	39	39	39	39	39	39
65°	36	36	36	36	36	36	36	36	36
67.5°	33	33	33	33	33	33	33	33	33
70°	30	30	30	30	30	30	30	30	30
72.5°	27	27	27	27	27	27	27	27	27
75°	24	24	24	24	24	24	24	24	24
77.5°	21	21	21	21	21	21	21	21	21
80°	19	19	19	19	19	19	19	19	19
82.5°	16	16	16	16	16	16	16	16	16
85°	14	14	14	14	14	14	14	14	14
87.5°	12	12	12	12	12	12	12	12	12
90°	10	10	10	10	10	10	10	10	10

(END OF REPORT)