

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: E395758

Luminaire Tested: **H7-72**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395758
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7-72
Description: HALO RECESSED INC - H7 HOUSING, DROP OPAL SPLAY
Light Source: 60A19, 870 LUMENS
Ballast/Driver: -

Summary

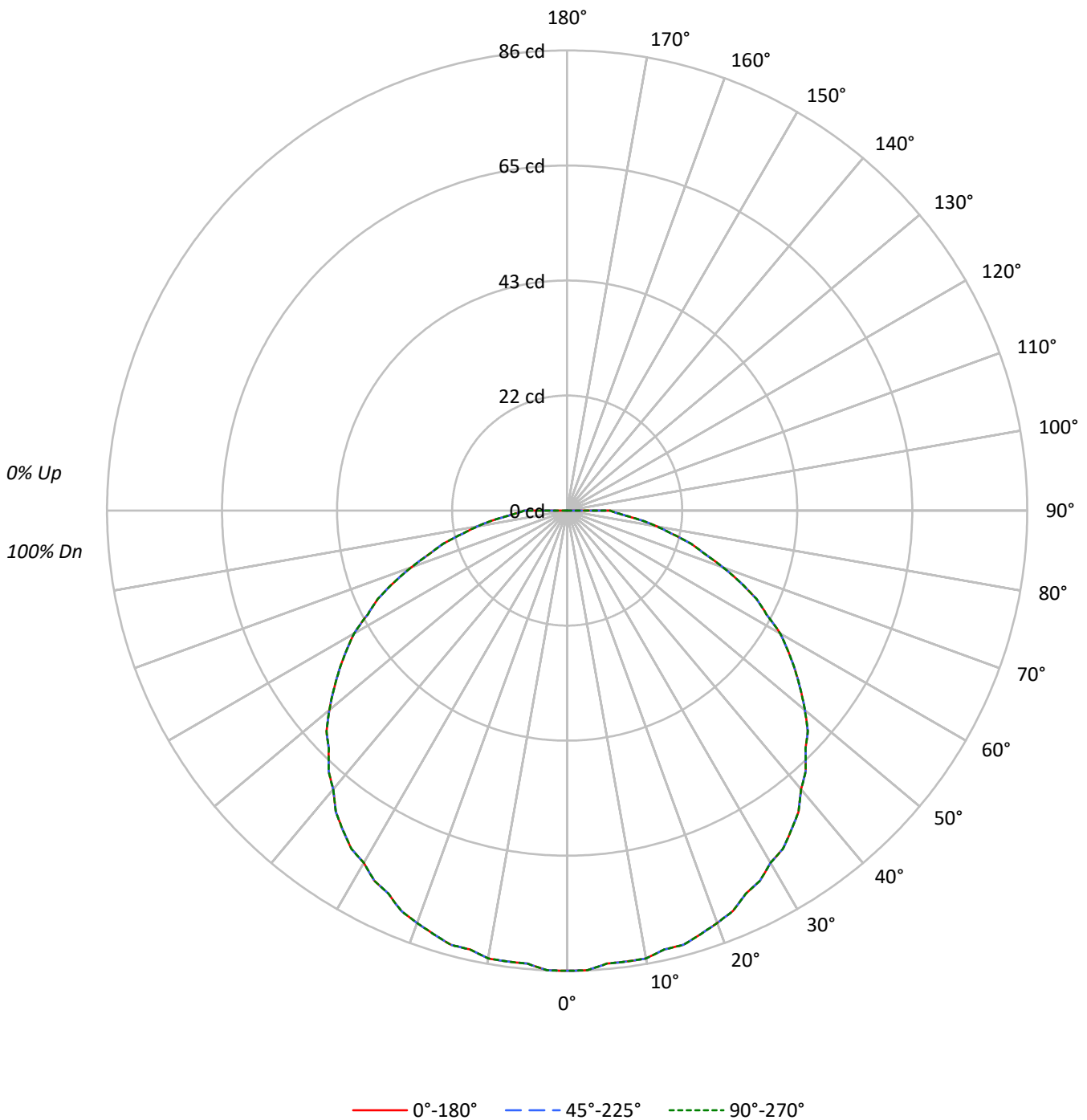
Lumens per Lamp: 870 (1 lamp)
Luminaire Lumens: 285.4 lumens
Efficiency: 32.8%
Efficacy: 4.8 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.44
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '
CIE Type: Direct

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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	39	39	39	39	38	38	38	38	36	36	36	35	35	35	33	33	33	33	33	33	33
1	35	33	32	30	34	33	31	30	31	30	29	30	29	28	29	28	27	29	28	27	26
2	32	29	26	24	31	28	26	24	27	25	23	26	24	23	25	24	22	25	24	22	22
3	29	25	22	20	28	25	22	20	24	21	19	23	21	19	22	20	19	22	20	19	18
4	26	22	19	17	26	22	19	17	21	18	16	20	18	16	19	17	16	19	17	16	15
5	24	20	17	14	23	19	16	14	19	16	14	18	16	14	17	15	14	17	15	14	13
6	22	18	15	12	22	17	14	12	17	14	12	16	14	12	16	14	12	16	14	12	11
7	21	16	13	11	20	16	13	11	15	13	11	15	12	11	14	12	11	14	12	11	10
8	19	15	12	10	19	14	12	10	14	11	10	13	11	9	13	11	9	13	11	9	9
9	18	13	11	9	17	13	10	9	13	10	9	12	10	9	12	10	8	12	10	8	8
10	17	12	10	8	16	12	10	8	12	9	8	11	9	8	11	9	8	11	9	8	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°	8.1	2.8	0.9
10°-20°	23.7	8.3	2.7
20°-30°	36.6	12.8	4.2
30°-40°	45.6	16.0	5.2
40°-50°	48.9	17.1	5.6
50°-60°	46.5	16.3	5.4
60°-70°	38.2	13.4	4.4
70°-80°	25.1	8.8	2.9
80°-90°	12.7	4.4	1.5
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°	68.4	24.0	7.9
0°-40°	114.0	39.9	13.1
0°-60°	209.4	73.4	24.1
0°-90°	285.4	100.0	32.8
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°	285.4	100.0	32.8

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	86	86	86	86	86	
5°	85	85	85	85	85	8
15°	84	84	84	84	84	24
25°	79	79	79	79	79	37
35°	73	73	73	73	73	46
45°	63	63	63	63	63	49
55°	52	52	52	52	52	47
65°	39	39	39	39	39	38
75°	24	24	24	24	24	25
85°	11	11	11	11	11	13
90°	8	8	8	8	8	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	86	86	86	86	86	86	86	86	86
2.5°	86	86	86	86	86	86	86	86	86
5°	85	85	85	85	85	85	85	85	85
7.5°	85	85	85	85	85	85	85	85	85
10°	85	85	85	85	85	85	85	85	85
12.5°	84	84	84	84	84	84	84	84	84
15°	84	84	84	84	84	84	84	84	84
17.5°	83	83	83	83	83	83	83	83	83
20°	82	82	82	82	82	82	82	82	82
22.5°	81	81	81	81	81	81	81	81	81
25°	79	79	79	79	79	79	79	79	79
27.5°	78	78	78	78	78	78	78	78	78
30°	76	76	76	76	76	76	76	76	76
32.5°	75	75	75	75	75	75	75	75	75
35°	73	73	73	73	73	73	73	73	73
37.5°	71	71	71	71	71	71	71	71	71
40°	68	68	68	68	68	68	68	68	68
42.5°	66	66	66	66	66	66	66	66	66
45°	63	63	63	63	63	63	63	63	63
47.5°	61	61	61	61	61	61	61	61	61
50°	58	58	58	58	58	58	58	58	58
52.5°	55	55	55	55	55	55	55	55	55
55°	52	52	52	52	52	52	52	52	52
57.5°	49	49	49	49	49	49	49	49	49
60°	46	46	46	46	46	46	46	46	46
62.5°	42	42	42	42	42	42	42	42	42
65°	39	39	39	39	39	39	39	39	39
67.5°	35	35	35	35	35	35	35	35	35
70°	31	31	31	31	31	31	31	31	31
72.5°	27	27	27	27	27	27	27	27	27
75°	24	24	24	24	24	24	24	24	24
77.5°	20	20	20	20	20	20	20	20	20
80°	17	17	17	17	17	17	17	17	17
82.5°	14	14	14	14	14	14	14	14	14
85°	11	11	11	11	11	11	11	11	11
87.5°	9	9	9	9	9	9	9	9	9
90°	8	8	8	8	8	8	8	8	8

(END OF REPORT)