

Scaled data based on original data using  
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge or  
Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: E395825

Luminaire Tested: **H600-1603C**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: E395825  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H600-1603C  
Description: HALO RECESSED INC. CLEAR CONE, HIGH S.S.  
Light Source: 100A19, 1710 LUMENS  
Ballast/Driver: -

**Summary**

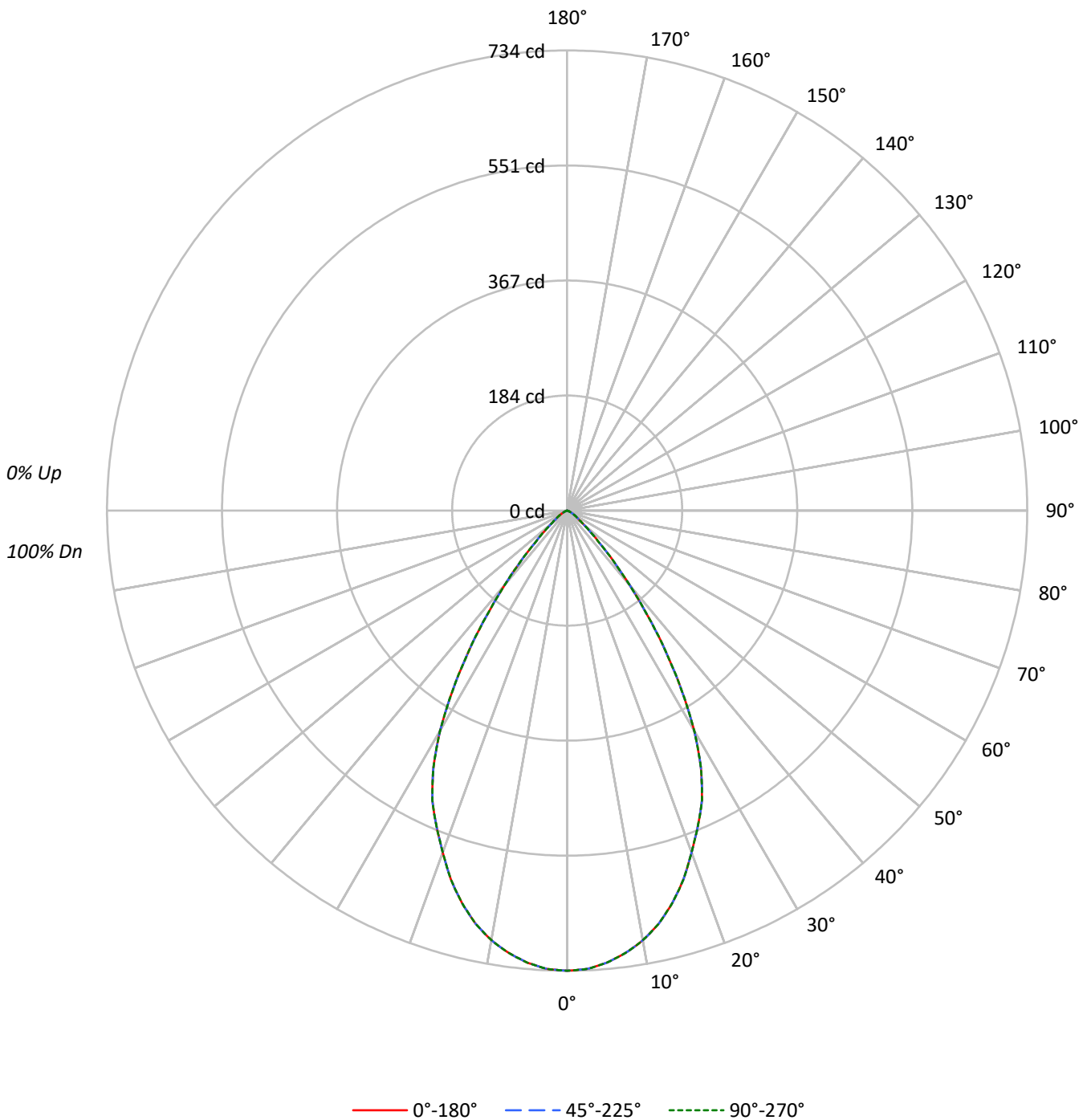
Lumens per Lamp: 1710 (1 lamp)  
Luminaire Lumens: 736.4 lumens  
Efficiency: 43.1%  
Efficacy: 7.4 lumens/watt  
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93  
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 100  
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	51	51	51	51	50	50	50	50	48	48	48	46	46	46	44	44	44	43
1	49	48	46	45	48	47	46	45	45	44	43	43	43	42	42	41	41	40
2	46	44	42	41	45	43	42	40	42	40	39	41	39	38	39	38	38	37
3	44	41	39	37	43	40	38	36	39	37	36	38	37	35	37	36	35	34
4	41	38	35	33	41	37	35	33	36	34	33	36	34	32	35	33	32	31
5	39	35	33	31	38	35	32	31	34	32	30	33	31	30	33	31	30	29
6	37	33	30	28	36	33	30	28	32	30	28	31	29	28	31	29	28	27
7	35	31	28	26	34	31	28	26	30	28	26	29	27	26	29	27	26	25
8	33	29	26	24	33	29	26	24	28	26	24	28	26	24	27	25	24	23
9	32	27	25	23	31	27	24	23	27	24	23	26	24	23	26	24	22	22
10	30	26	23	21	30	25	23	21	25	23	21	25	23	21	24	22	21	20

**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°	68.2	9.3	4.0
10°-20°	181.0	24.6	10.6
20°-30°	230.1	31.2	13.5
30°-40°	170.3	23.1	10.0
40°-50°	61.6	8.4	3.6
50°-60°	17.9	2.4	1.0
60°-70°	6.2	0.8	0.4
70°-80°	1.2	0.2	0.1
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°	479.3	65.1	28.0
0°-40°	649.6	88.2	38.0
0°-60°	729.0	99.0	42.6
0°-90°	736.4	100.0	43.1
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°	736.4	100.0	43.1

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	734	734	734	734	734	
5°	724	724	724	724	724	68
15°	648	648	648	648	648	181
25°	509	509	509	509	509	230
35°	274	274	274	274	274	170
45°	73	73	73	73	73	62
55°	19	19	19	19	19	18
65°	6	6	6	6	6	6
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
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°	734	734	734	734	734	734	734	734	734
2.5°	732	732	732	732	732	732	732	732	732
5°	724	724	724	724	724	724	724	724	724
7.5°	712	712	712	712	712	712	712	712	712
10°	696	696	696	696	696	696	696	696	696
12.5°	675	675	675	675	675	675	675	675	675
15°	648	648	648	648	648	648	648	648	648
17.5°	617	617	617	617	617	617	617	617	617
20°	580	580	580	580	580	580	580	580	580
22.5°	545	545	545	545	545	545	545	545	545
25°	509	509	509	509	509	509	509	509	509
27.5°	462	462	462	462	462	462	462	462	462
30°	405	405	405	405	405	405	405	405	405
32.5°	340	340	340	340	340	340	340	340	340
35°	274	274	274	274	274	274	274	274	274
37.5°	210	210	210	210	210	210	210	210	210
40°	155	155	155	155	155	155	155	155	155
42.5°	108	108	108	108	108	108	108	108	108
45°	73	73	73	73	73	73	73	73	73
47.5°	49	49	49	49	49	49	49	49	49
50°	34	34	34	34	34	34	34	34	34
52.5°	24	24	24	24	24	24	24	24	24
55°	19	19	19	19	19	19	19	19	19
57.5°	15	15	15	15	15	15	15	15	15
60°	11	11	11	11	11	11	11	11	11
62.5°	8	8	8	8	8	8	8	8	8
65°	6	6	6	6	6	6	6	6	6
67.5°	4	4	4	4	4	4	4	4	4
70°	3	3	3	3	3	3	3	3	3
72.5°	2	2	2	2	2	2	2	2	2
75°	1	1	1	1	1	1	1	1	1
77.5°	0	0	0	0	0	0	0	0	0
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)