

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: E395818

Luminaire Tested: **H600-1603C**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: E395818  
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: 150A21, 2790 LUMENS  
Ballast/Driver: -

**Summary**

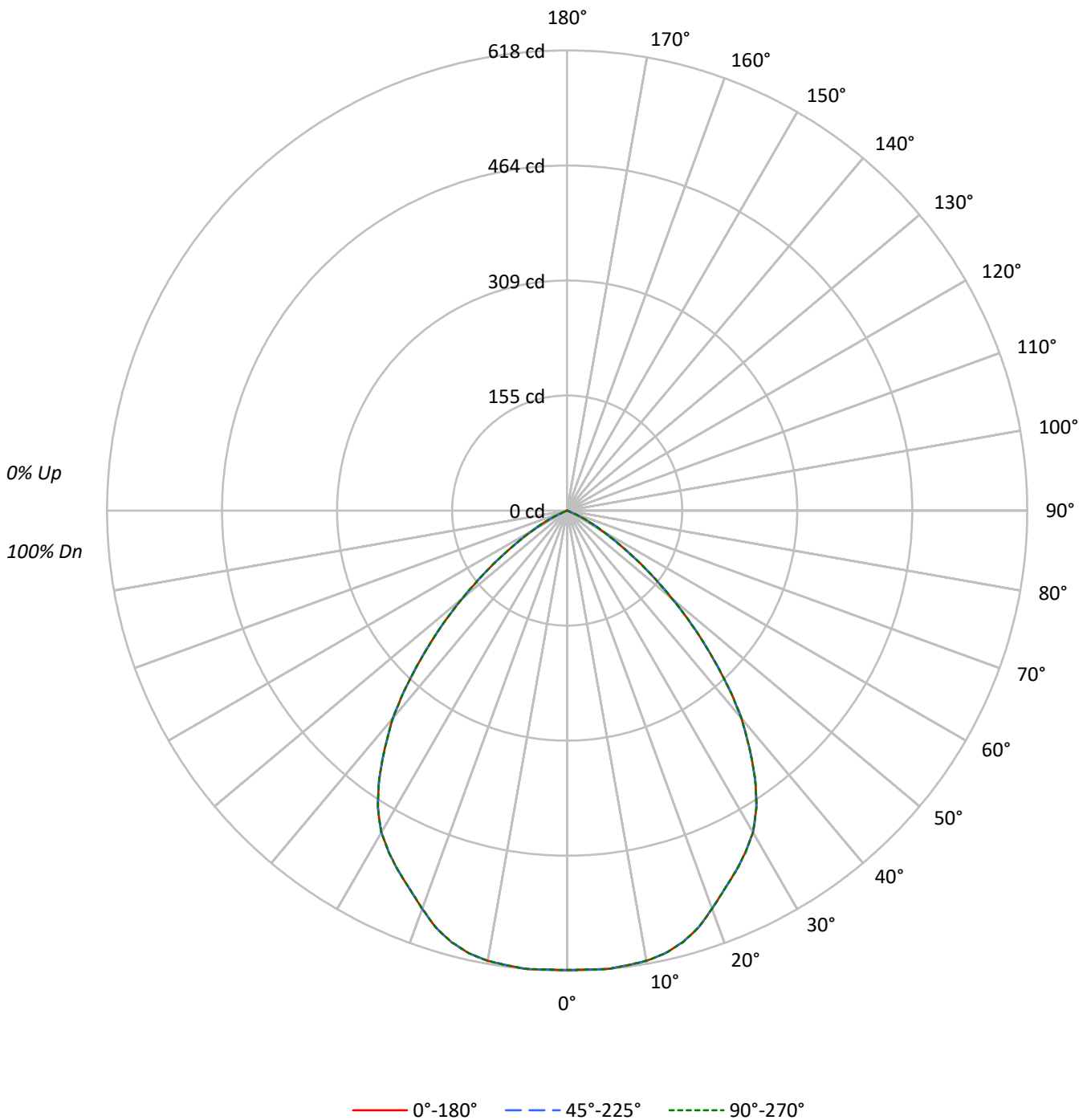
Lumens per Lamp: 2790 (1 lamp)  
Luminaire Lumens: 1078.1 lumens  
Efficiency: 38.6%  
Efficacy: 7.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.21  
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 150  
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	46	46	46	46	45	45	45	45	43	43	43	41	41	41	39	39	39	39	39	39	39
1	43	42	41	40	42	41	40	39	40	39	38	38	37	37	37	36	36	37	36	36	35
2	41	38	36	35	40	38	36	34	36	35	34	35	34	33	34	33	32	34	33	32	31
3	38	35	32	30	37	34	32	30	33	31	30	32	31	29	31	30	29	31	30	29	28
4	35	32	29	27	34	31	29	27	30	28	26	29	28	26	29	27	26	29	27	26	25
5	33	29	26	24	32	28	26	24	28	25	24	27	25	23	26	25	23	26	25	23	22
6	31	26	24	22	30	26	23	21	25	23	21	25	23	21	24	22	21	24	22	21	20
7	29	24	21	19	28	24	21	19	23	21	19	23	21	19	22	21	19	22	21	19	18
8	27	22	20	18	26	22	19	18	22	19	18	21	19	17	21	19	17	21	19	17	17
9	25	21	18	16	25	21	18	16	20	18	16	20	18	16	19	17	16	19	17	16	15
10	24	19	17	15	23	19	17	15	19	16	15	18	16	15	18	16	15	18	16	15	14

**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°	58.8	5.5	2.1
10°-20°	168.6	15.6	6.0
20°-30°	246.5	22.9	8.8
30°-40°	272.6	25.3	9.8
40°-50°	209.5	19.4	7.5
50°-60°	99.7	9.2	3.6
60°-70°	21.4	2.0	0.8
70°-80°	1.0	0.1	0.0
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°	473.8	44.0	17.0
0°-40°	746.4	69.2	26.8
0°-60°	1055.6	97.9	37.8
0°-90°	1078.1	100.0	38.6
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°	1078.1	100.0	38.6

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	617	617	617	617	617	
5°	618	618	618	618	618	59
15°	600	600	600	600	600	169
25°	535	535	535	535	535	246
35°	440	440	440	440	440	273
45°	272	272	272	272	272	210
55°	109	109	109	109	109	100
65°	19	19	19	19	19	21
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°	617	617	617	617	617	617	617	617	617
2.5°	617	617	617	617	617	617	617	617	617
5°	618	618	618	618	618	618	618	618	618
7.5°	616	616	616	616	616	616	616	616	616
10°	614	614	614	614	614	614	614	614	614
12.5°	609	609	609	609	609	609	609	609	609
15°	600	600	600	600	600	600	600	600	600
17.5°	587	587	587	587	587	587	587	587	587
20°	569	569	569	569	569	569	569	569	569
22.5°	551	551	551	551	551	551	551	551	551
25°	535	535	535	535	535	535	535	535	535
27.5°	518	518	518	518	518	518	518	518	518
30°	499	499	499	499	499	499	499	499	499
32.5°	473	473	473	473	473	473	473	473	473
35°	440	440	440	440	440	440	440	440	440
37.5°	402	402	402	402	402	402	402	402	402
40°	364	364	364	364	364	364	364	364	364
42.5°	319	319	319	319	319	319	319	319	319
45°	272	272	272	272	272	272	272	272	272
47.5°	227	227	227	227	227	227	227	227	227
50°	184	184	184	184	184	184	184	184	184
52.5°	144	144	144	144	144	144	144	144	144
55°	109	109	109	109	109	109	109	109	109
57.5°	78	78	78	78	78	78	78	78	78
60°	53	53	53	53	53	53	53	53	53
62.5°	35	35	35	35	35	35	35	35	35
65°	19	19	19	19	19	19	19	19	19
67.5°	6	6	6	6	6	6	6	6	6
70°	2	2	2	2	2	2	2	2	2
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)