

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: E395838

Luminaire Tested: **H600-1670**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: E395838  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H600-1670  
Description: HALO RECESSED INC. ALBALITE LENS, LOW S.S.  
Light Source: 100A19, 1710 LUMENS  
Ballast/Driver: -

**Summary**

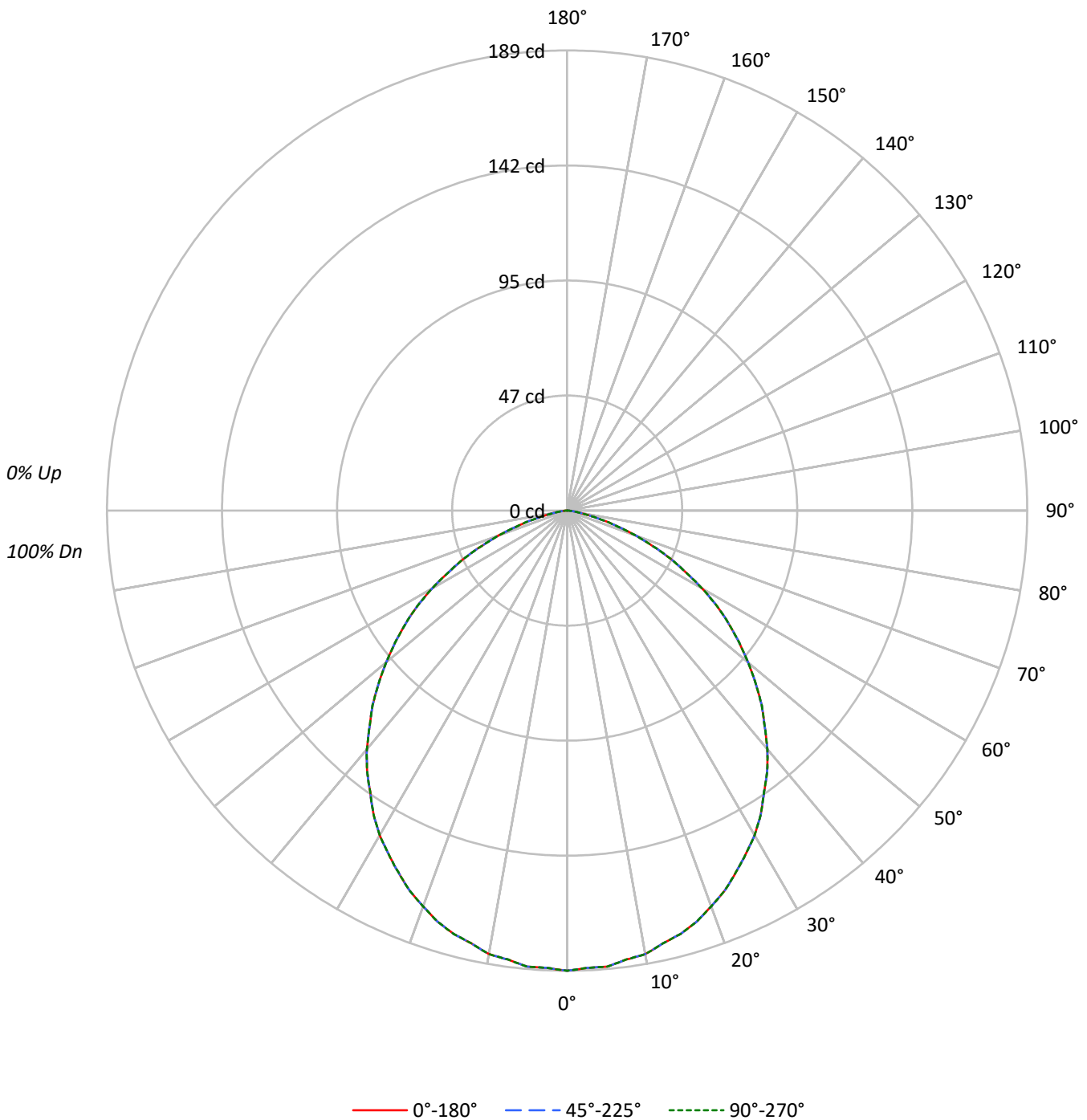
Lumens per Lamp: 1710 (1 lamp)  
Luminaire Lumens: 456.6 lumens  
Efficiency: 26.7%  
Efficacy: 4.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.31  
Luminous Opening: (L: 0 ' x W: -0.46 ' x H: 0 '  
CIE Type: Direct

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	32	32	32	32	31	31	31	31	30	30	30	28	28	28	27	27	27	27
1	29	28	27	26	29	28	27	26	27	26	25	26	25	24	25	24	24	23
2	27	25	23	22	26	24	23	22	24	22	21	23	22	21	22	21	20	20
3	25	22	20	19	24	22	20	18	21	19	18	20	19	18	20	18	17	17
4	23	20	18	16	22	19	17	16	19	17	16	18	17	15	18	16	15	15
5	21	18	15	14	20	17	15	14	17	15	14	16	15	13	16	14	13	13
6	19	16	14	12	19	16	14	12	15	13	12	15	13	12	14	13	12	11
7	18	15	12	11	18	14	12	11	14	12	11	14	12	11	13	12	10	10
8	17	13	11	10	16	13	11	10	13	11	10	12	11	9	12	11	9	9
9	16	12	10	9	15	12	10	9	12	10	9	11	10	9	11	10	9	8
10	15	11	9	8	14	11	9	8	11	9	8	11	9	8	10	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°	17.8	3.9	1.0
10°-20°	50.7	11.1	3.0
20°-30°	75.6	16.6	4.4
30°-40°	88.4	19.4	5.2
40°-50°	86.9	19.0	5.1
50°-60°	72.3	15.8	4.2
60°-70°	46.2	10.1	2.7
70°-80°	16.7	3.7	1.0
80°-90°	2.0	0.4	0.1
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°	144.1	31.6	8.4
0°-40°	232.5	50.9	13.6
0°-60°	391.7	85.8	22.9
0°-90°	456.6	100.0	26.7
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°	456.6	100.0	26.7

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	189	189	189	189	189	
5°	188	188	188	188	188	18
15°	180	180	180	180	180	51
25°	164	164	164	164	164	76
35°	141	141	141	141	141	88
45°	113	113	113	113	113	87
55°	81	81	81	81	81	72
65°	47	47	47	47	47	46
75°	15	15	15	15	15	17
85°	2	2	2	2	2	2
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°	189	189	189	189	189	189	189	189	189
2.5°	188	188	188	188	188	188	188	188	188
5°	188	188	188	188	188	188	188	188	188
7.5°	186	186	186	186	186	186	186	186	186
10°	185	185	185	185	185	185	185	185	185
12.5°	182	182	182	182	182	182	182	182	182
15°	180	180	180	180	180	180	180	180	180
17.5°	177	177	177	177	177	177	177	177	177
20°	173	173	173	173	173	173	173	173	173
22.5°	169	169	169	169	169	169	169	169	169
25°	164	164	164	164	164	164	164	164	164
27.5°	159	159	159	159	159	159	159	159	159
30°	154	154	154	154	154	154	154	154	154
32.5°	148	148	148	148	148	148	148	148	148
35°	141	141	141	141	141	141	141	141	141
37.5°	135	135	135	135	135	135	135	135	135
40°	128	128	128	128	128	128	128	128	128
42.5°	120	120	120	120	120	120	120	120	120
45°	113	113	113	113	113	113	113	113	113
47.5°	105	105	105	105	105	105	105	105	105
50°	97	97	97	97	97	97	97	97	97
52.5°	89	89	89	89	89	89	89	89	89
55°	81	81	81	81	81	81	81	81	81
57.5°	73	73	73	73	73	73	73	73	73
60°	64	64	64	64	64	64	64	64	64
62.5°	55	55	55	55	55	55	55	55	55
65°	47	47	47	47	47	47	47	47	47
67.5°	38	38	38	38	38	38	38	38	38
70°	30	30	30	30	30	30	30	30	30
72.5°	22	22	22	22	22	22	22	22	22
75°	15	15	15	15	15	15	15	15	15
77.5°	9	9	9	9	9	9	9	9	9
80°	5	5	5	5	5	5	5	5	5
82.5°	3	3	3	3	3	3	3	3	3
85°	2	2	2	2	2	2	2	2	2
87.5°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)