

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: E395820

Luminaire Tested: **H600-1603BA**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: E395820  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H600-1603BA  
Description: HALO RECESSED INC. BLACK BAFFLE, LOW S.S.  
Light Source: 100A19 1710 LUMENS  
Ballast/Driver: -

**Summary**

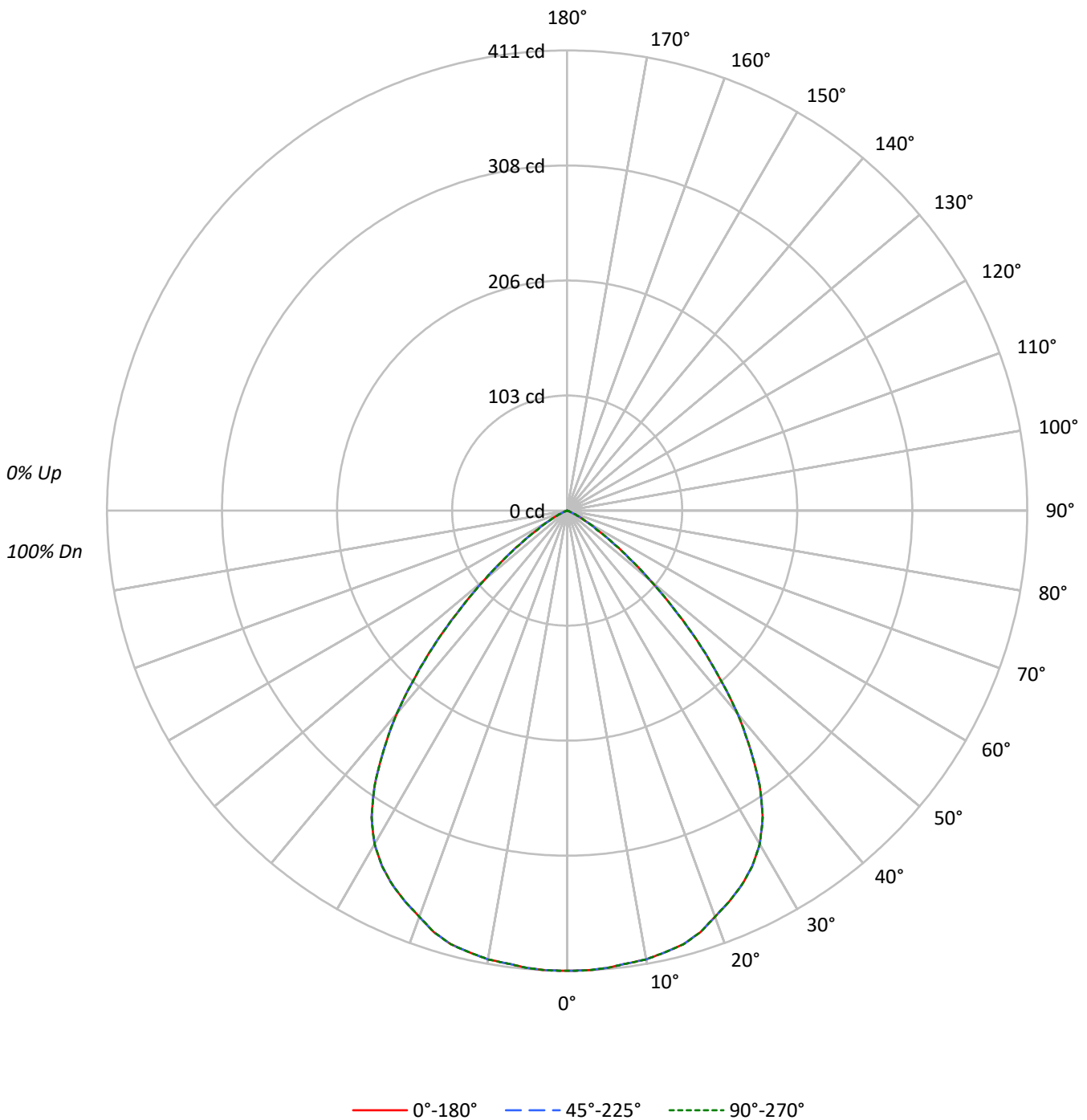
Lumens per Lamp: 1710 (1 lamp)  
Luminaire Lumens: 686.4 lumens  
Efficiency: 40.1%  
Efficacy: 6.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.2  
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '  
CIE Type: Direct

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	48	48	48	48	47	47	47	47	45	45	45		43	43	43		41	41	41	40
1	45	44	43	42	44	43	42	41	41	40	40		40	39	39		38	38	37	37
2	42	40	38	36	41	39	38	36	38	36	35		37	36	34		36	35	34	33
3	40	36	34	32	39	36	34	32	35	33	31		34	32	31		33	32	30	30
4	37	33	31	29	36	33	30	28	32	30	28		31	29	28		30	29	27	27
5	35	31	28	26	34	30	28	26	29	27	25		29	27	25		28	26	25	24
6	32	28	25	23	32	28	25	23	27	25	23		26	24	23		26	24	23	22
7	30	26	23	21	30	26	23	21	25	23	21		24	22	21		24	22	21	20
8	28	24	21	19	28	24	21	19	23	21	19		23	20	19		22	20	19	18
9	27	22	19	17	26	22	19	17	22	19	17		21	19	17		21	19	17	17
10	25	21	18	16	25	20	18	16	20	18	16		20	18	16		19	17	16	15

**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°	39.0	5.7	2.3
10°-20°	112.9	16.4	6.6
20°-30°	169.5	24.7	9.9
30°-40°	184.7	26.9	10.8
40°-50°	126.1	18.4	7.4
50°-60°	46.0	6.7	2.7
60°-70°	8.1	1.2	0.5
70°-80°	0.1	0.0	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°	321.4	46.8	18.8
0°-40°	506.1	73.7	29.6
0°-60°	678.2	98.8	39.7
0°-90°	686.4	100.0	40.1
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°	686.4	100.0	40.1

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	411	411	411	411	411	
5°	410	410	410	410	410	39
15°	401	401	401	401	401	113
25°	369	369	369	369	369	170
35°	300	300	300	300	300	185
45°	164	164	164	164	164	126
55°	48	48	48	48	48	46
65°	7	7	7	7	7	8
75°	0	0	0	0	0	0
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°	411	411	411	411	411	411	411	411	411
2.5°	411	411	411	411	411	411	411	411	411
5°	410	410	410	410	410	410	410	410	410
7.5°	408	408	408	408	408	408	408	408	408
10°	407	407	407	407	407	407	407	407	407
12.5°	404	404	404	404	404	404	404	404	404
15°	401	401	401	401	401	401	401	401	401
17.5°	395	395	395	395	395	395	395	395	395
20°	386	386	386	386	386	386	386	386	386
22.5°	378	378	378	378	378	378	378	378	378
25°	369	369	369	369	369	369	369	369	369
27.5°	358	358	358	358	358	358	358	358	358
30°	344	344	344	344	344	344	344	344	344
32.5°	325	325	325	325	325	325	325	325	325
35°	300	300	300	300	300	300	300	300	300
37.5°	269	269	269	269	269	269	269	269	269
40°	237	237	237	237	237	237	237	237	237
42.5°	200	200	200	200	200	200	200	200	200
45°	164	164	164	164	164	164	164	164	164
47.5°	128	128	128	128	128	128	128	128	128
50°	97	97	97	97	97	97	97	97	97
52.5°	70	70	70	70	70	70	70	70	70
55°	48	48	48	48	48	48	48	48	48
57.5°	31	31	31	31	31	31	31	31	31
60°	21	21	21	21	21	21	21	21	21
62.5°	13	13	13	13	13	13	13	13	13
65°	7	7	7	7	7	7	7	7	7
67.5°	2	2	2	2	2	2	2	2	2
70°	1	1	1	1	1	1	1	1	1
72.5°	0	0	0	0	0	0	0	0	0
75°	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)