

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: E395826

Luminaire Tested: **H600-1603BA**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: E395826  
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, HIGH S.S.  
Light Source: 100A19, 1710 LUMENS  
Ballast/Driver: -

**Summary**

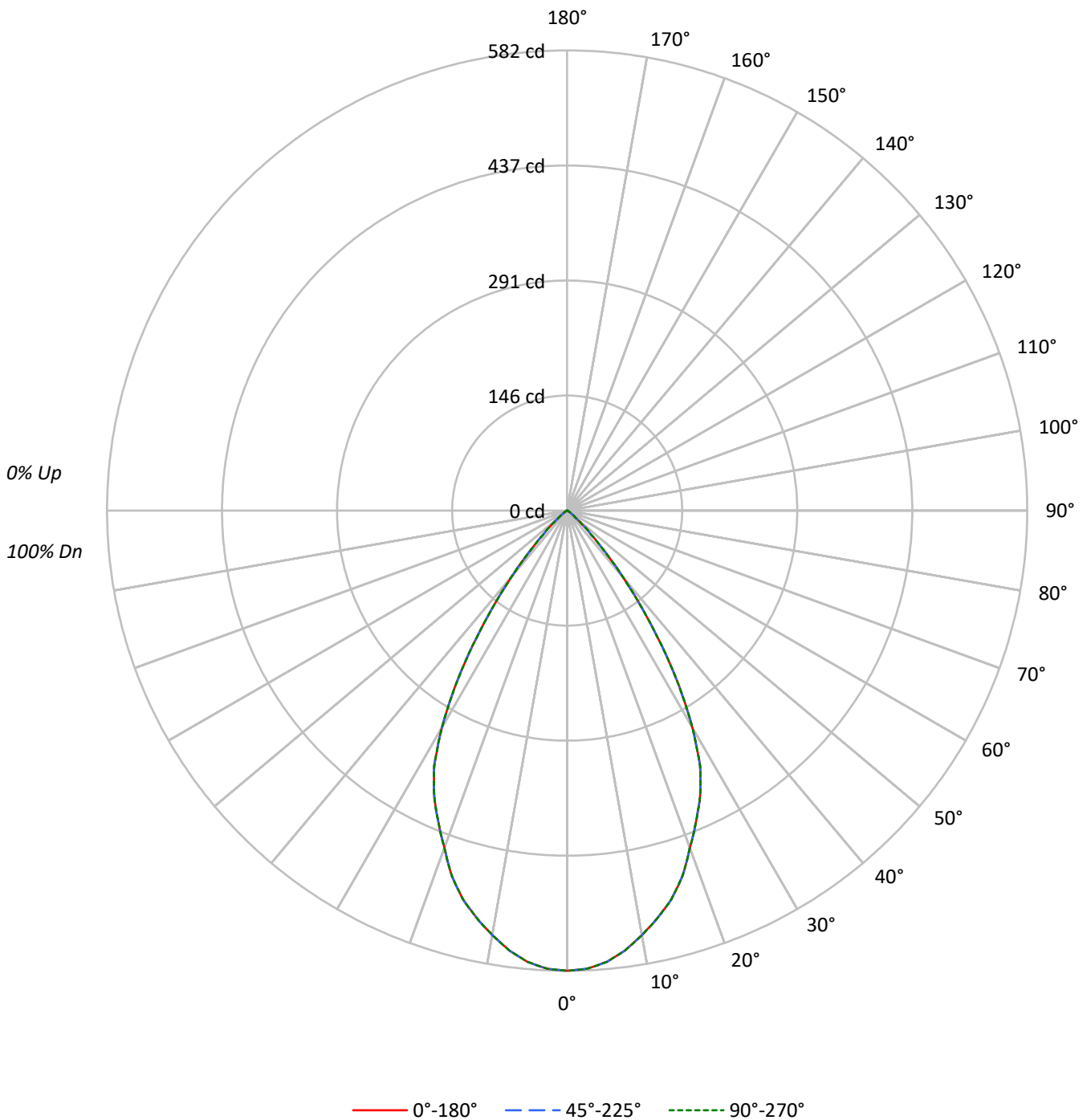
Lumens per Lamp: 1710 (1 lamp)  
Luminaire Lumens: 550.7 lumens  
Efficiency: 32.2%  
Efficacy: 5.5 lumens/watt  
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93  
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '  
CIE Type: Direct

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	38	38	38	38	37	37	37	37	36	36	36	34	34	34	33	33	33	32
1	37	36	35	34	36	35	34	34	34	33	33	32	32	32	31	31	31	30
2	35	33	32	31	34	33	31	30	32	31	30	31	30	29	30	29	28	28
3	33	31	29	28	32	30	29	28	30	28	27	29	28	27	28	27	26	26
4	31	29	27	26	31	28	27	25	28	26	25	27	26	25	26	25	25	24
5	30	27	25	24	29	27	25	23	26	24	23	25	24	23	25	24	23	22
6	28	25	23	22	28	25	23	22	24	23	22	24	22	21	23	22	21	21
7	27	24	22	20	26	23	21	20	23	21	20	23	21	20	22	21	20	19
8	25	22	20	19	25	22	20	19	22	20	19	21	20	19	21	20	19	18
9	24	21	19	18	24	21	19	18	20	19	18	20	19	17	20	18	17	17
10	23	20	18	17	23	20	18	16	19	18	16	19	17	16	19	17	16	16

**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°	53.8	9.8	3.1
10°-20°	142.0	25.8	8.3
20°-30°	180.3	32.7	10.5
30°-40°	129.4	23.5	7.6
40°-50°	38.3	7.0	2.2
50°-60°	5.9	1.1	0.3
60°-70°	1.1	0.2	0.1
70°-80°	0.0	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°	376.1	68.3	22.0
0°-40°	505.5	91.8	29.6
0°-60°	549.6	99.8	32.1
0°-90°	550.7	100.0	32.2
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°	550.7	100.0	32.2

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	582	582	582	582	582	
5°	573	573	573	573	573	54
15°	509	509	509	509	509	142
25°	398	398	398	398	398	180
35°	208	208	208	208	208	129
45°	43	43	43	43	43	38
55°	6	6	6	6	6	6
65°	1	1	1	1	1	1
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°	582	582	582	582	582	582	582	582	582
2.5°	580	580	580	580	580	580	580	580	580
5°	573	573	573	573	573	573	573	573	573
7.5°	561	561	561	561	561	561	561	561	561
10°	545	545	545	545	545	545	545	545	545
12.5°	528	528	528	528	528	528	528	528	528
15°	509	509	509	509	509	509	509	509	509
17.5°	485	485	485	485	485	485	485	485	485
20°	454	454	454	454	454	454	454	454	454
22.5°	426	426	426	426	426	426	426	426	426
25°	398	398	398	398	398	398	398	398	398
27.5°	364	364	364	364	364	364	364	364	364
30°	317	317	317	317	317	317	317	317	317
32.5°	264	264	264	264	264	264	264	264	264
35°	208	208	208	208	208	208	208	208	208
37.5°	155	155	155	155	155	155	155	155	155
40°	110	110	110	110	110	110	110	110	110
42.5°	72	72	72	72	72	72	72	72	72
45°	43	43	43	43	43	43	43	43	43
47.5°	26	26	26	26	26	26	26	26	26
50°	14	14	14	14	14	14	14	14	14
52.5°	8	8	8	8	8	8	8	8	8
55°	6	6	6	6	6	6	6	6	6
57.5°	4	4	4	4	4	4	4	4	4
60°	3	3	3	3	3	3	3	3	3
62.5°	2	2	2	2	2	2	2	2	2
65°	1	1	1	1	1	1	1	1	1
67.5°	0	0	0	0	0	0	0	0	0
70°	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)