

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: E395827

Luminaire Tested: **H600-1603BA**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: E395827  
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: 150A21, 2790 LUMENS  
Ballast/Driver: -

**Summary**

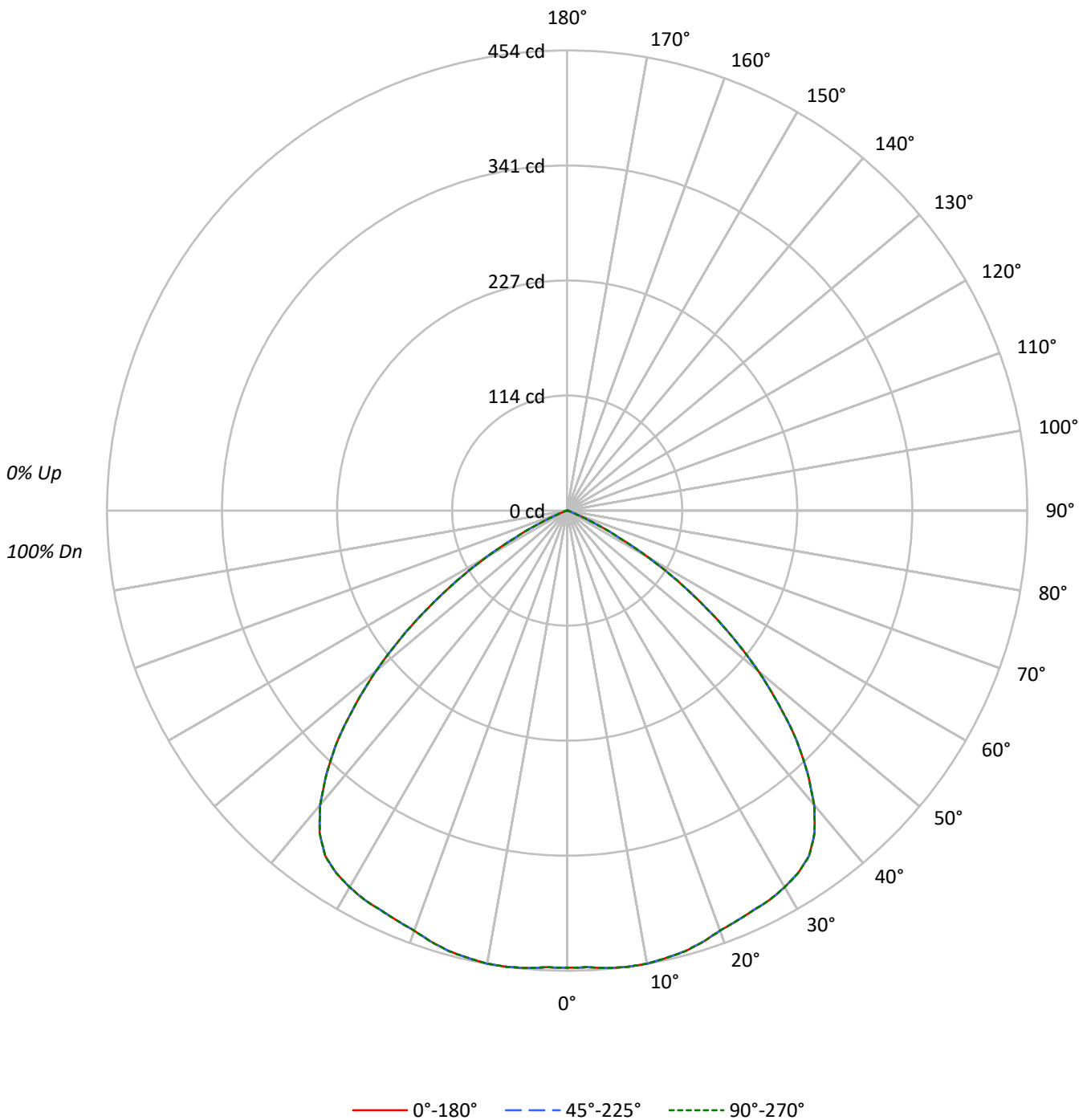
Lumens per Lamp: 2790 (1 lamp)  
Luminaire Lumens: 1061.6 lumens  
Efficiency: 38.1%  
Efficacy: 7.1 lumens/watt  
Spacing Criteria (0/90/45): 1.41 / 1.41 / 1.42  
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 150  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	45	45	45	45	44	44	44	44	42	42	42	40	40	40	39	39	39	38
1	42	41	40	39	41	40	39	38	39	38	37	37	37	36	36	35	35	34
2	39	37	35	33	38	36	34	33	35	33	32	34	32	31	33	32	31	30
3	36	33	31	29	36	33	30	28	32	30	28	31	29	27	30	28	27	26
4	34	30	27	25	33	29	27	25	28	26	24	28	26	24	27	25	24	23
5	31	27	24	22	30	27	24	22	26	23	21	25	23	21	24	23	21	20
6	29	24	21	19	28	24	21	19	23	21	19	23	21	19	22	20	19	18
7	27	22	19	17	26	22	19	17	21	19	17	21	19	17	20	18	17	16
8	25	20	17	15	25	20	17	15	20	17	15	19	17	15	19	17	15	14
9	23	19	16	14	23	19	16	14	18	16	14	18	15	14	17	15	14	13
10	22	17	14	13	22	17	14	13	17	14	13	16	14	12	16	14	12	12

**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°	43.3	4.1	1.6
10°-20°	127.1	12.0	4.6
20°-30°	201.3	19.0	7.2
30°-40°	257.8	24.3	9.2
40°-50°	243.8	23.0	8.7
50°-60°	149.4	14.1	5.4
60°-70°	36.3	3.4	1.3
70°-80°	2.6	0.2	0.1
80°-90°	0.1	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°	371.6	35.0	13.3
0°-40°	629.4	59.3	22.6
0°-60°	1022.6	96.3	36.7
0°-90°	1061.6	100.0	38.1
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°	1061.6	100.0	38.1

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	451	451	451	451	451	
5°	453	453	453	453	453	43
15°	450	450	450	450	450	127
25°	435	435	435	435	435	201
35°	416	416	416	416	416	258
45°	320	320	320	320	320	244
55°	167	167	167	167	167	149
65°	30	30	30	30	30	36
75°	2	2	2	2	2	3
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°	451	451	451	451	451	451	451	451	451
2.5°	451	451	451	451	451	451	451	451	451
5°	453	453	453	453	453	453	453	453	453
7.5°	454	454	454	454	454	454	454	454	454
10°	454	454	454	454	454	454	454	454	454
12.5°	452	452	452	452	452	452	452	452	452
15°	450	450	450	450	450	450	450	450	450
17.5°	446	446	446	446	446	446	446	446	446
20°	441	441	441	441	441	441	441	441	441
22.5°	438	438	438	438	438	438	438	438	438
25°	435	435	435	435	435	435	435	435	435
27.5°	433	433	433	433	433	433	433	433	433
30°	429	429	429	429	429	429	429	429	429
32.5°	424	424	424	424	424	424	424	424	424
35°	416	416	416	416	416	416	416	416	416
37.5°	401	401	401	401	401	401	401	401	401
40°	379	379	379	379	379	379	379	379	379
42.5°	351	351	351	351	351	351	351	351	351
45°	320	320	320	320	320	320	320	320	320
47.5°	283	283	283	283	283	283	283	283	283
50°	246	246	246	246	246	246	246	246	246
52.5°	207	207	207	207	207	207	207	207	207
55°	167	167	167	167	167	167	167	167	167
57.5°	129	129	129	129	129	129	129	129	129
60°	92	92	92	92	92	92	92	92	92
62.5°	58	58	58	58	58	58	58	58	58
65°	30	30	30	30	30	30	30	30	30
67.5°	12	12	12	12	12	12	12	12	12
70°	5	5	5	5	5	5	5	5	5
72.5°	3	3	3	3	3	3	3	3	3
75°	2	2	2	2	2	2	2	2	2
77.5°	2	2	2	2	2	2	2	2	2
80°	1	1	1	1	1	1	1	1	1
82.5°	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)