

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: E395860

Luminaire Tested: **H600-1636BA**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: E395860  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H600-1636BA  
Description: HALO RECESSED INC. COILEX BAFFLE, 0 DEG. TILT  
Light Source: 100R30FL, 1200 LUMENS  
Ballast/Driver: -

**Summary**

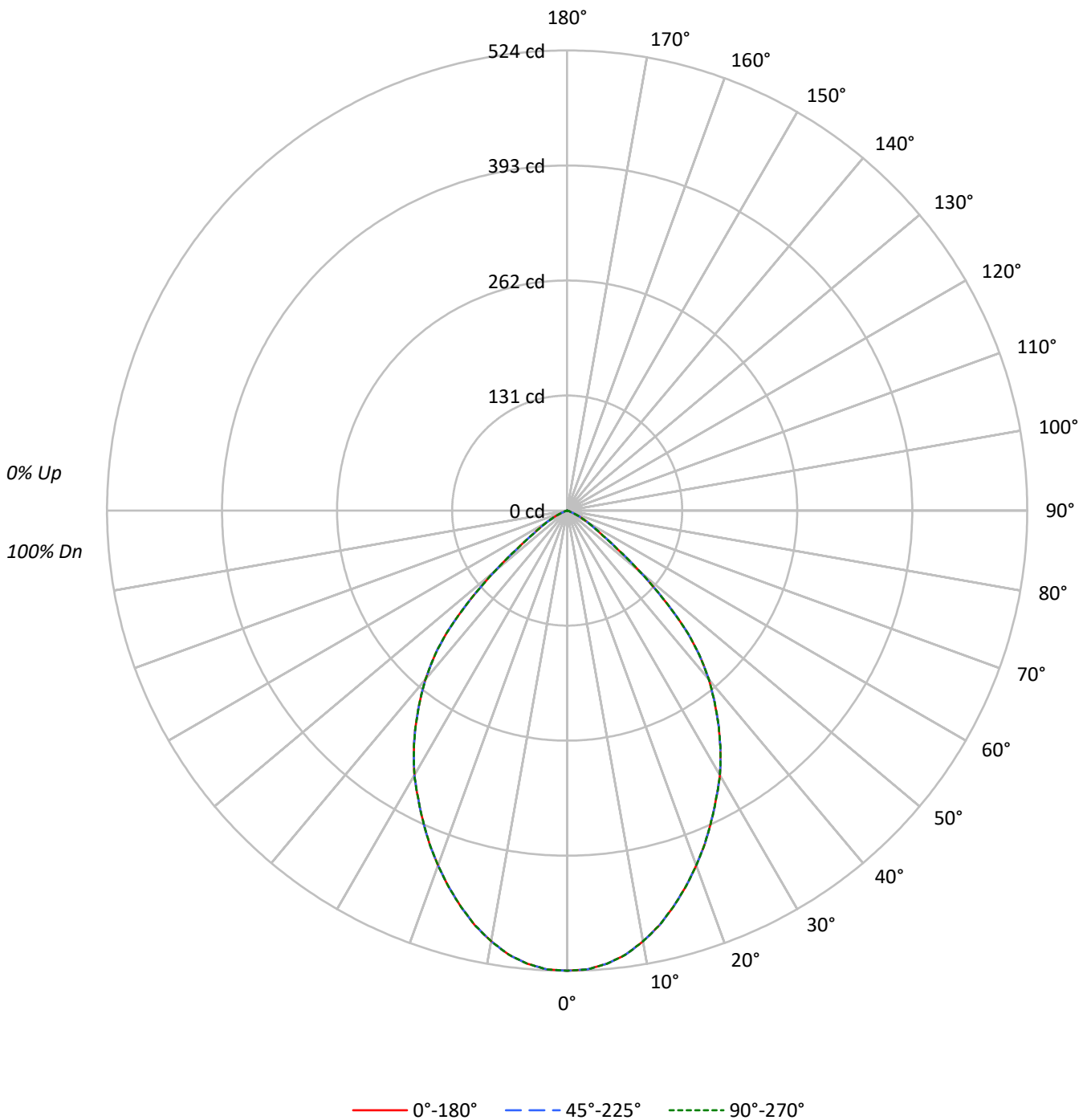
Lumens per Lamp: 1200 (1 lamp)  
Luminaire Lumens: 752.7 lumens  
Efficiency: 62.7%  
Efficacy: 7.5 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.11  
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '  
CIE Type: Direct

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	75	75	75	75	73	73	73	73	70	70	70		67	67	67		64	64	64	63
1	71	68	67	65	69	67	65	64	65	63	62		62	61	60		60	59	58	57
2	66	62	59	57	65	61	59	56	59	57	55		57	55	54		56	54	53	52
3	62	57	53	50	61	56	53	50	54	51	49		53	50	48		51	49	47	46
4	58	52	48	45	57	51	47	44	50	47	44		49	46	43		47	45	43	42
5	54	48	43	40	53	47	43	40	46	42	40		45	42	39		44	41	39	38
6	51	44	39	36	50	43	39	36	42	39	36		41	38	36		41	38	35	34
7	48	41	36	33	47	40	36	33	39	35	33		38	35	32		38	35	32	31
8	45	38	33	30	44	37	33	30	36	33	30		36	32	30		35	32	30	29
9	42	35	31	28	41	35	30	28	34	30	27		33	30	27		33	30	27	26
10	40	33	28	25	39	32	28	25	32	28	25		31	28	25		31	27	25	24

**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°	48.8	6.5	4.1
10°-20°	131.1	17.4	10.9
20°-30°	178.9	23.8	14.9
30°-40°	187.5	24.9	15.6
40°-50°	141.6	18.8	11.8
50°-60°	50.5	6.7	4.2
60°-70°	13.6	1.8	1.1
70°-80°	0.7	0.1	0.1
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°	358.9	47.7	29.9
0°-40°	546.4	72.6	45.5
0°-60°	738.5	98.1	61.5
0°-90°	752.7	100.0	62.7
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°	752.7	100.0	62.7

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	524	524	524	524	524	
5°	518	518	518	518	518	49
15°	467	467	467	467	467	131
25°	389	389	389	389	389	179
35°	301	301	301	301	301	188
45°	189	189	189	189	189	142
55°	50	50	50	50	50	50
65°	13	13	13	13	13	14
75°	0	0	0	0	0	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°	524	524	524	524	524	524	524	524	524
2.5°	523	523	523	523	523	523	523	523	523
5°	518	518	518	518	518	518	518	518	518
7.5°	510	510	510	510	510	510	510	510	510
10°	498	498	498	498	498	498	498	498	498
12.5°	484	484	484	484	484	484	484	484	484
15°	467	467	467	467	467	467	467	467	467
17.5°	449	449	449	449	449	449	449	449	449
20°	430	430	430	430	430	430	430	430	430
22.5°	410	410	410	410	410	410	410	410	410
25°	389	389	389	389	389	389	389	389	389
27.5°	368	368	368	368	368	368	368	368	368
30°	348	348	348	348	348	348	348	348	348
32.5°	325	325	325	325	325	325	325	325	325
35°	301	301	301	301	301	301	301	301	301
37.5°	276	276	276	276	276	276	276	276	276
40°	251	251	251	251	251	251	251	251	251
42.5°	223	223	223	223	223	223	223	223	223
45°	189	189	189	189	189	189	189	189	189
47.5°	148	148	148	148	148	148	148	148	148
50°	108	108	108	108	108	108	108	108	108
52.5°	73	73	73	73	73	73	73	73	73
55°	50	50	50	50	50	50	50	50	50
57.5°	37	37	37	37	37	37	37	37	37
60°	28	28	28	28	28	28	28	28	28
62.5°	20	20	20	20	20	20	20	20	20
65°	13	13	13	13	13	13	13	13	13
67.5°	7	7	7	7	7	7	7	7	7
70°	3	3	3	3	3	3	3	3	3
72.5°	1	1	1	1	1	1	1	1	1
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)