

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: E395884

Luminaire Tested: **H600-1603P**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395884
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H600-1603P
Description: HALO RECESSED INC. PAINTED CONE, LOW S.S.
Light Source: 100A19, 1710 LUMENS
Ballast/Driver: -

Summary

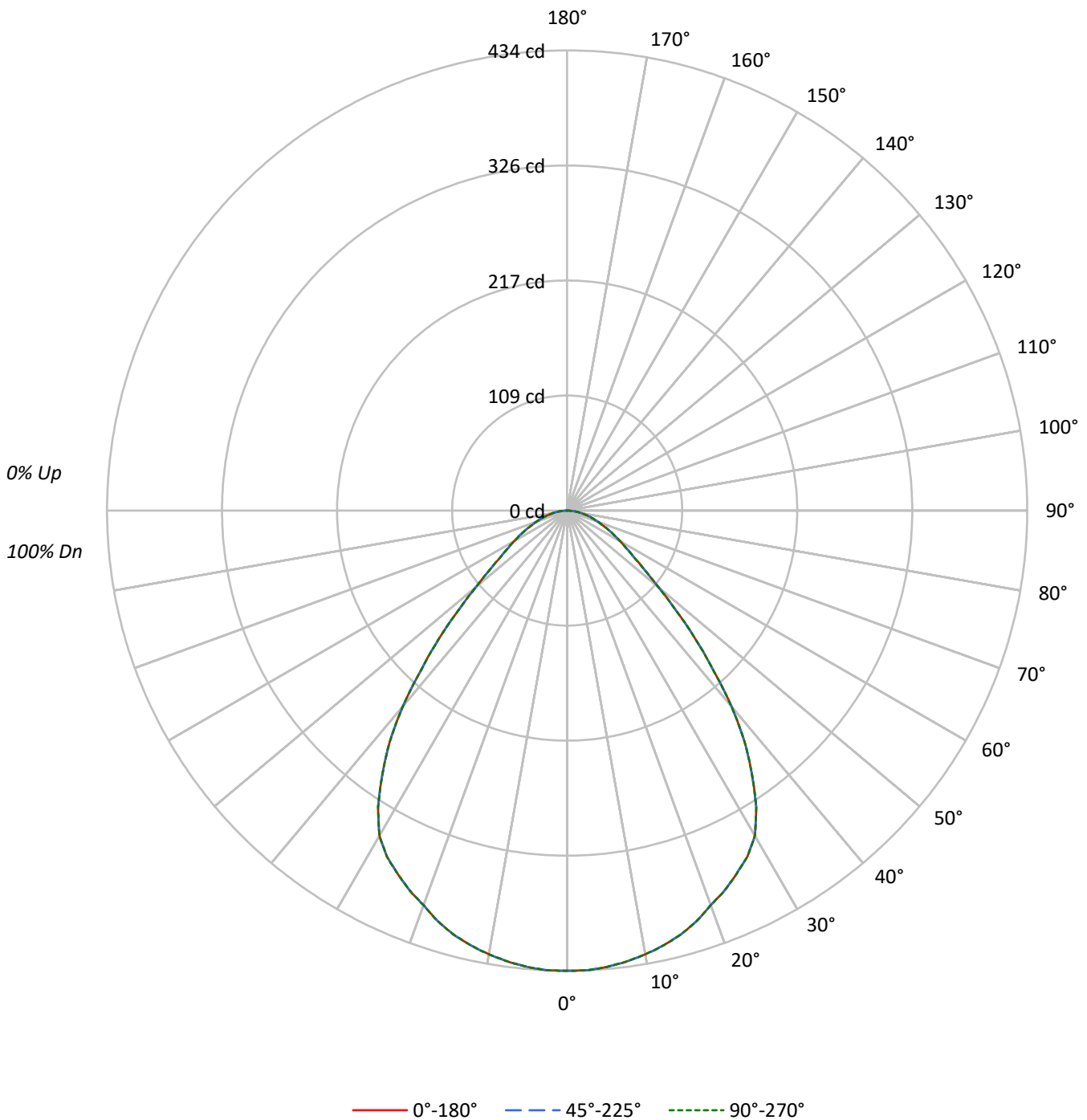
Lumens per Lamp: 1710 (1 lamp)
Luminaire Lumens: 796.4 lumens
Efficiency: 46.6%
Efficacy: 8.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.19
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 100
Input Voltage (V): NR
Input Current (A_{in}): 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	55	55	55	55	54	54	54	54	52	52	52		50	50	50		48	48	48	47
1	52	50	48	47	51	49	47	46	47	46	45		45	44	43		44	43	42	41
2	48	45	42	40	47	44	42	40	42	40	39		41	39	38		40	38	37	36
3	45	41	37	35	44	40	37	35	38	36	34		37	35	33		36	34	33	32
4	41	37	33	31	40	36	33	30	35	32	30		34	32	30		33	31	29	28
5	39	33	30	27	38	33	30	27	32	29	27		31	29	27		30	28	26	25
6	36	31	27	24	35	30	27	24	29	26	24		29	26	24		28	26	24	23
7	34	28	25	22	33	28	24	22	27	24	22		26	24	22		26	23	22	21
8	32	26	22	20	31	26	22	20	25	22	20		25	22	20		24	22	20	19
9	30	24	21	18	29	24	20	18	23	20	18		23	20	18		22	20	18	17
10	28	22	19	17	27	22	19	17	22	19	17		21	19	17		21	18	17	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°	41.0	5.1	2.4
10°-20°	116.6	14.6	6.8
20°-30°	174.1	21.9	10.2
30°-40°	188.4	23.7	11.0
40°-50°	132.3	16.6	7.7
50°-60°	71.3	9.0	4.2
60°-70°	42.9	5.4	2.5
70°-80°	22.9	2.9	1.3
80°-90°	6.9	0.9	0.4
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°	331.6	41.6	19.4
0°-40°	520.0	65.3	30.4
0°-60°	723.7	90.9	42.3
0°-90°	796.4	100.0	46.6
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°	796.4	100.0	46.6

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	434	434	434	434	434	
5°	432	432	432	432	432	41
15°	414	414	414	414	414	117
25°	378	378	378	378	378	174
35°	304	304	304	304	304	188
45°	171	171	171	171	171	132
55°	77	77	77	77	77	71
65°	43	43	43	43	43	43
75°	22	22	22	22	22	23
85°	6	6	6	6	6	7
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°	434	434	434	434	434	434	434	434	434
2.5°	434	434	434	434	434	434	434	434	434
5°	432	432	432	432	432	432	432	432	432
7.5°	429	429	429	429	429	429	429	429	429
10°	425	425	425	425	425	425	425	425	425
12.5°	420	420	420	420	420	420	420	420	420
15°	414	414	414	414	414	414	414	414	414
17.5°	406	406	406	406	406	406	406	406	406
20°	396	396	396	396	396	396	396	396	396
22.5°	388	388	388	388	388	388	388	388	388
25°	378	378	378	378	378	378	378	378	378
27.5°	368	368	368	368	368	368	368	368	368
30°	354	354	354	354	354	354	354	354	354
32.5°	332	332	332	332	332	332	332	332	332
35°	304	304	304	304	304	304	304	304	304
37.5°	275	275	275	275	275	275	275	275	275
40°	241	241	241	241	241	241	241	241	241
42.5°	204	204	204	204	204	204	204	204	204
45°	171	171	171	171	171	171	171	171	171
47.5°	139	139	139	139	139	139	139	139	139
50°	112	112	112	112	112	112	112	112	112
52.5°	92	92	92	92	92	92	92	92	92
55°	77	77	77	77	77	77	77	77	77
57.5°	66	66	66	66	66	66	66	66	66
60°	58	58	58	58	58	58	58	58	58
62.5°	50	50	50	50	50	50	50	50	50
65°	43	43	43	43	43	43	43	43	43
67.5°	36	36	36	36	36	36	36	36	36
70°	31	31	31	31	31	31	31	31	31
72.5°	26	26	26	26	26	26	26	26	26
75°	22	22	22	22	22	22	22	22	22
77.5°	17	17	17	17	17	17	17	17	17
80°	13	13	13	13	13	13	13	13	13
82.5°	10	10	10	10	10	10	10	10	10
85°	6	6	6	6	6	6	6	6	6
87.5°	3	3	3	3	3	3	3	3	3
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)