

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: E395817

Luminaire Tested: **H600-1603**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395817
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H600-1603
Description: HALO RECESSED INC - CLEAR CONE
Light Source: 150A21, 2790 LUMENS
Ballast/Driver: -

Summary

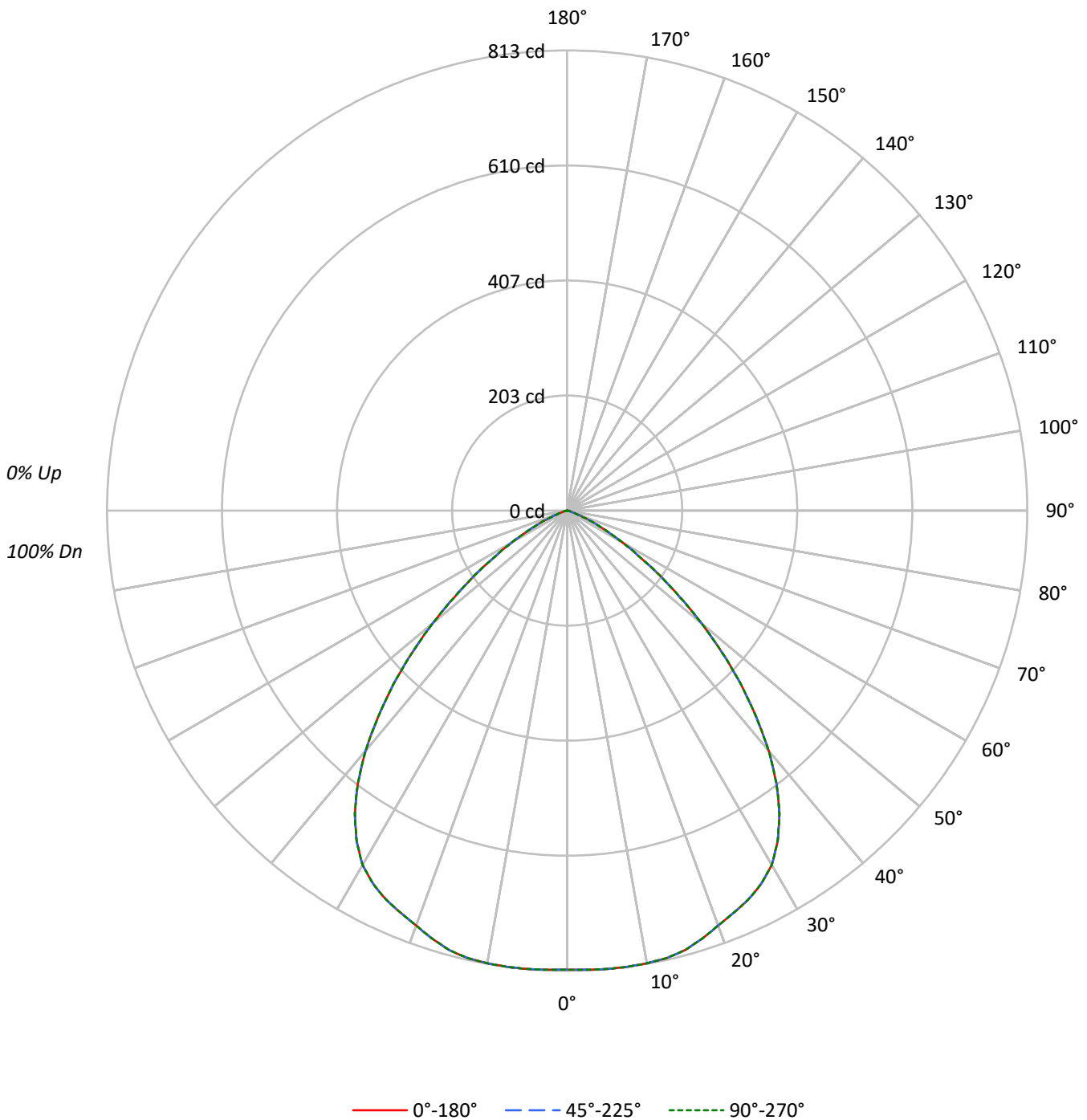
Lumens per Lamp: 2790 (1 lamp)
Luminaire Lumens: 1636.8 lumens
Efficiency: 58.7%
Efficacy: 10.9 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.28
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 150
Input Voltage (V): NR
Input Current (A_{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	70	70	70	70	68	68	68	68	65	65	65		62	62	62		60	60	60	59
1	66	64	62	60	64	62	61	59	60	58	57		58	57	56		56	55	54	53
2	61	57	54	52	60	56	53	51	54	52	50		52	51	49		51	49	48	47
3	57	52	48	45	55	51	47	45	49	46	44		48	45	43		46	44	42	41
4	53	47	43	39	51	46	42	39	45	41	39		43	41	38		42	40	38	37
5	49	43	38	35	48	42	38	35	41	37	34		40	37	34		39	36	34	33
6	46	39	34	31	45	38	34	31	37	34	31		36	33	30		36	33	30	29
7	42	36	31	28	42	35	31	28	34	30	28		33	30	27		33	30	27	26
8	40	33	28	25	39	32	28	25	32	28	25		31	27	25		30	27	25	24
9	37	30	26	23	36	30	26	23	29	25	23		29	25	23		28	25	23	22
10	35	28	24	21	34	28	24	21	27	23	21		27	23	21		26	23	21	20

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°	77.6	4.7	2.8
10°-20°	226.5	13.8	8.1
20°-30°	348.9	21.3	12.5
30°-40°	404.9	24.7	14.5
40°-50°	332.6	20.3	11.9
50°-60°	180.5	11.0	6.5
60°-70°	57.2	3.5	2.1
70°-80°	7.9	0.5	0.3
80°-90°	0.7	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°	653.0	39.9	23.4
0°-40°	1057.9	64.6	37.9
0°-60°	1571.0	96.0	56.3
0°-90°	1636.8	100.0	58.7
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°	1636.8	100.0	58.7

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	811	811	811	811	811	
5°	813	813	813	813	813	78
15°	804	804	804	804	804	227
25°	758	758	758	758	758	349
35°	654	654	654	654	654	405
45°	434	434	434	434	434	333
55°	199	199	199	199	199	181
65°	55	55	55	55	55	57
75°	6	6	6	6	6	8
85°	0	0	0	0	0	1
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°	811	811	811	811	811	811	811	811	811
2.5°	812	812	812	812	812	812	812	812	812
5°	813	813	813	813	813	813	813	813	813
7.5°	813	813	813	813	813	813	813	813	813
10°	812	812	812	812	812	812	812	812	812
12.5°	810	810	810	810	810	810	810	810	810
15°	804	804	804	804	804	804	804	804	804
17.5°	793	793	793	793	793	793	793	793	793
20°	780	780	780	780	780	780	780	780	780
22.5°	769	769	769	769	769	769	769	769	769
25°	758	758	758	758	758	758	758	758	758
27.5°	743	743	743	743	743	743	743	743	743
30°	723	723	723	723	723	723	723	723	723
32.5°	692	692	692	692	692	692	692	692	692
35°	654	654	654	654	654	654	654	654	654
37.5°	607	607	607	607	607	607	607	607	607
40°	554	554	554	554	554	554	554	554	554
42.5°	494	494	494	494	494	494	494	494	494
45°	434	434	434	434	434	434	434	434	434
47.5°	371	371	371	371	371	371	371	371	371
50°	310	310	310	310	310	310	310	310	310
52.5°	251	251	251	251	251	251	251	251	251
55°	199	199	199	199	199	199	199	199	199
57.5°	151	151	151	151	151	151	151	151	151
60°	113	113	113	113	113	113	113	113	113
62.5°	80	80	80	80	80	80	80	80	80
65°	55	55	55	55	55	55	55	55	55
67.5°	33	33	33	33	33	33	33	33	33
70°	17	17	17	17	17	17	17	17	17
72.5°	10	10	10	10	10	10	10	10	10
75°	6	6	6	6	6	6	6	6	6
77.5°	4	4	4	4	4	4	4	4	4
80°	3	3	3	3	3	3	3	3	3
82.5°	1	1	1	1	1	1	1	1	1
85°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)