

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: E395828

Luminaire Tested: **H600-1603C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395828
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H600-1603C
Description: HALO RECESSED INC. CLEAR CONE, LOW S.S.
Light Source: 150A21, 2790 LUMENS
Ballast/Driver: -

Summary

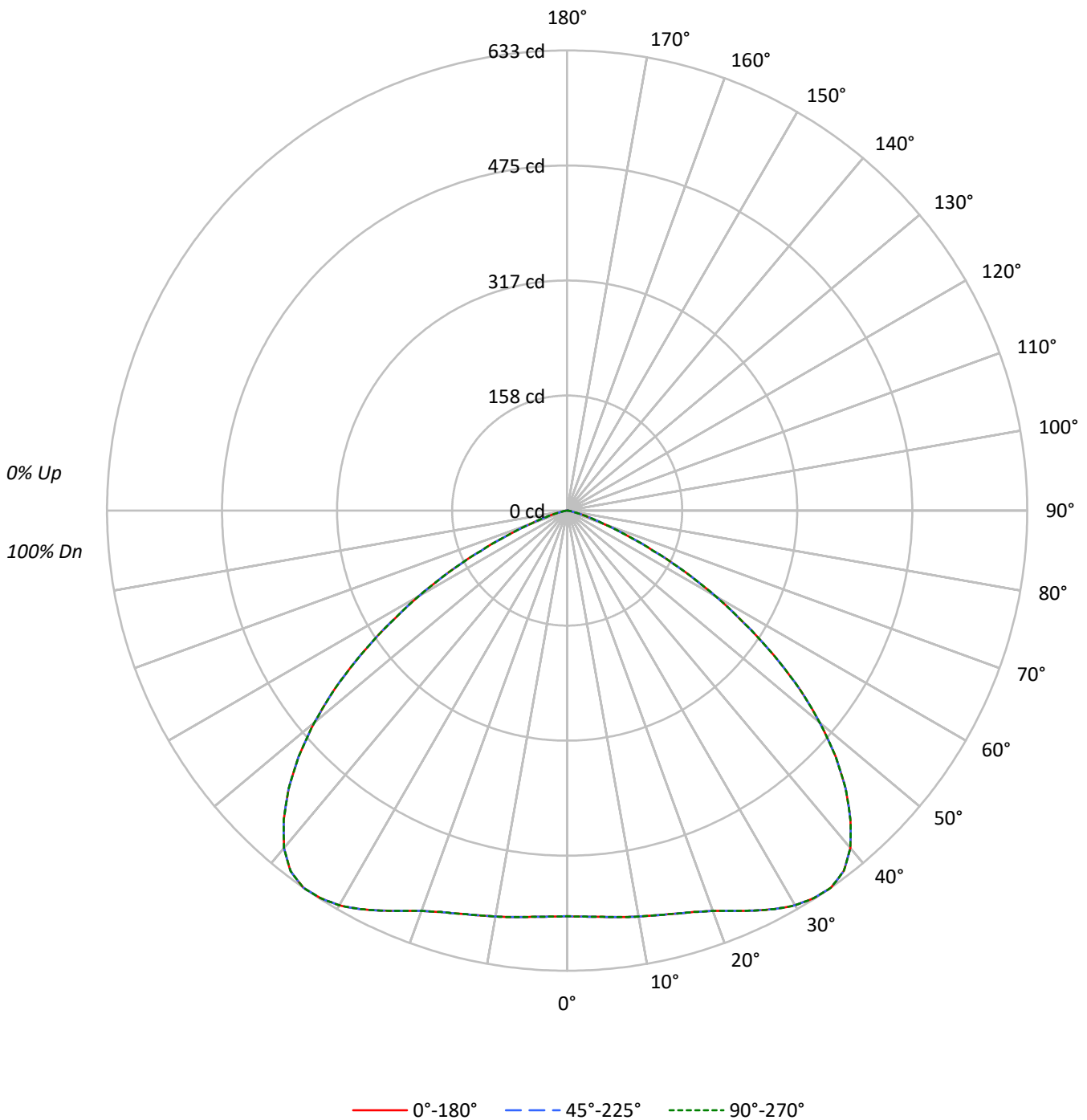
Lumens per Lamp: 2790 (1 lamp)
Luminaire Lumens: 1774.3 lumens
Efficiency: 63.6%
Efficacy: 11.8 lumens/watt
Spacing Criteria (0/90/45): 1.65 / 1.65 / 1.6
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '
CIE Type: Direct

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



TEST NUMBER: E395828
CATALOG NUMBER: H600-1603C

Luminous Intensity Polar Plot





TEST NUMBER: E395828
 CATALOG NUMBER: H600-1603C

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	76	76	76	76	74	74	74	74	71	71	71		68	68	68		65	65	65	64
1	70	68	66	64	69	66	64	63	64	62	61		61	60	59		59	58	57	56
2	65	60	56	53	63	59	56	53	57	54	51		55	52	50		53	51	49	48
3	59	53	49	45	58	52	48	45	51	47	44		49	46	43		47	45	42	41
4	54	47	42	38	53	47	42	38	45	41	38		44	40	37		42	39	37	35
5	50	42	37	33	49	42	37	33	40	36	33		39	35	32		38	35	32	31
6	46	38	33	29	45	38	32	29	36	32	28		35	31	28		34	31	28	27
7	43	35	29	25	42	34	29	25	33	28	25		32	28	25		31	28	25	24
8	40	31	26	23	39	31	26	22	30	26	22		29	25	22		29	25	22	21
9	37	29	24	20	36	28	23	20	28	23	20		27	23	20		26	23	20	19
10	35	26	21	18	34	26	21	18	25	21	18		25	21	18		24	21	18	17

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°			



TEST NUMBER: E395828
 CATALOG NUMBER: H600-1603C

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	53.8	3.0	1.9
10°-20°	163.2	9.2	5.9
20°-30°	281.5	15.9	10.1
30°-40°	393.4	22.2	14.1
40°-50°	414.7	23.4	14.9
50°-60°	308.7	17.4	11.1
60°-70°	134.2	7.6	4.8
70°-80°	23.1	1.3	0.8
80°-90°	1.8	0.1	0.1
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°	498.4	28.1	17.9
0°-40°	891.9	50.3	32.0
0°-60°	1615.3	91.0	57.9
0°-90°	1774.3	100.0	63.6
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°	1774.3	100.0	63.6

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	558	558	558	558	558	
5°	561	561	561	561	561	54
15°	574	574	574	574	574	163
25°	607	607	607	607	607	281
35°	633	633	633	633	633	393
45°	542	542	542	542	542	415
55°	347	347	347	347	347	309
65°	131	131	131	131	131	134
75°	17	17	17	17	17	23
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



TEST NUMBER: E395828
 CATALOG NUMBER: H600-1603C

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	558	558	558	558	558	558	558	558	558
2.5°	559	559	559	559	559	559	559	559	559
5°	561	561	561	561	561	561	561	561	561
7.5°	564	564	564	564	564	564	564	564	564
10°	567	567	567	567	567	567	567	567	567
12.5°	570	570	570	570	570	570	570	570	570
15°	574	574	574	574	574	574	574	574	574
17.5°	579	579	579	579	579	579	579	579	579
20°	586	586	586	586	586	586	586	586	586
22.5°	596	596	596	596	596	596	596	596	596
25°	607	607	607	607	607	607	607	607	607
27.5°	618	618	618	618	618	618	618	618	618
30°	627	627	627	627	627	627	627	627	627
32.5°	632	632	632	632	632	632	632	632	632
35°	633	633	633	633	633	633	633	633	633
37.5°	625	625	625	625	625	625	625	625	625
40°	606	606	606	606	606	606	606	606	606
42.5°	577	577	577	577	577	577	577	577	577
45°	542	542	542	542	542	542	542	542	542
47.5°	501	501	501	501	501	501	501	501	501
50°	454	454	454	454	454	454	454	454	454
52.5°	403	403	403	403	403	403	403	403	403
55°	347	347	347	347	347	347	347	347	347
57.5°	290	290	290	290	290	290	290	290	290
60°	236	236	236	236	236	236	236	236	236
62.5°	183	183	183	183	183	183	183	183	183
65°	131	131	131	131	131	131	131	131	131
67.5°	87	87	87	87	87	87	87	87	87
70°	53	53	53	53	53	53	53	53	53
72.5°	33	33	33	33	33	33	33	33	33
75°	17	17	17	17	17	17	17	17	17
77.5°	9	9	9	9	9	9	9	9	9
80°	5	5	5	5	5	5	5	5	5
82.5°	3	3	3	3	3	3	3	3	3
85°	1	1	1	1	1	1	1	1	1
87.5°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)