

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: E395862

Luminaire Tested: **H600-1636C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395862
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H600-1636C
Description: HALO RECESSED INC. CLEAR CONE, 30 DEG. TILT
Light Source: 100R30FL, 1200 LUMENS
Ballast/Driver: -

Summary

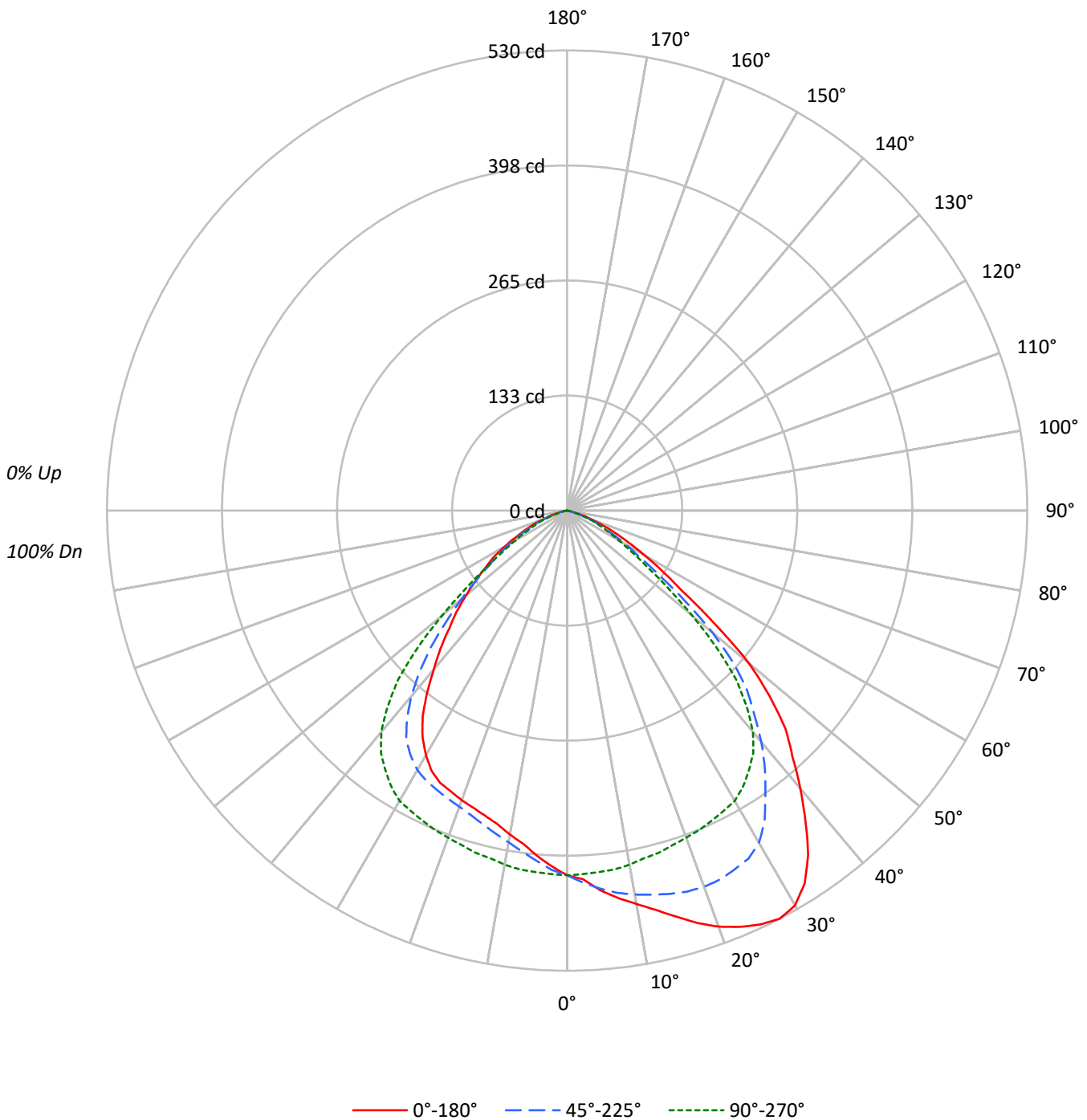
Lumens per Lamp: 1200 (1 lamp)
Luminaire Lumens: 953.0 lumens
Efficiency: 79.4%
Efficacy: 9.5 lumens/watt
Spacing Criteria (0/90/45): 1.41 / 1.35 / 1.35
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '
CIE Type: Direct

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



TEST NUMBER: E395862
CATALOG NUMBER: H600-1636C

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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	95	95	95	95	92	92	92	92	88	88	88	84	84	84	81	81	81	79		
1	88	86	83	81	86	84	81	79	80	79	77	77	76	74	75	73	72	71		
2	82	77	72	69	80	75	71	68	73	69	66	70	67	65	68	66	63	62		
3	76	69	63	59	74	68	63	59	65	61	58	63	60	57	61	58	56	54		
4	70	62	56	52	69	61	55	51	59	54	51	57	53	50	56	52	49	48		
5	65	56	50	45	64	55	49	45	54	49	45	52	48	44	51	47	44	42		
6	60	51	45	40	59	50	44	40	49	44	40	48	43	39	46	42	39	38		
7	56	47	40	36	55	46	40	36	45	39	36	44	39	35	43	38	35	34		
8	52	43	37	32	51	42	36	32	41	36	32	40	35	32	39	35	32	30		
9	49	39	33	29	48	39	33	29	38	33	29	37	32	29	36	32	29	27		
10	46	36	31	27	45	36	30	27	35	30	26	34	30	26	34	29	26	25		

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°	40.0	4.2	3.3
10°-20°	117.9	12.4	9.8
20°-30°	189.4	19.9	15.8
30°-40°	228.5	24.0	19.0
40°-50°	201.4	21.1	16.8
50°-60°	113.9	12.0	9.5
60°-70°	49.4	5.2	4.1
70°-80°	12.1	1.3	1.0
80°-90°	0.4	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°	347.4	36.5	28.9
0°-40°	575.8	60.4	48.0
0°-60°	891.1	93.5	74.3
0°-90°	953.0	100.0	79.4
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°	953.0	100.0	79.4

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	420	420	420	420	420	
5°	439	437	418	405	399	43
15°	484	457	408	374	364	138
25°	526	456	394	355	346	242
35°	484	398	365	323	290	299
45°	356	293	275	221	192	270
55°	162	128	111	109	115	154
65°	61	44	43	48	54	62
75°	10	7	8	11	13	13
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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 CATALOG NUMBER: H600-1636C

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	22.5°	25°	35°	45°	55°	65°	67.5°	75°
0°	420	420	420	420	420	420	420	420	420	420	420
2.5°	425	426	428	428	429	430	429	428	426	425	422
5°	439	438	440	439	441	439	437	434	430	429	424
7.5°	450	450	450	449	449	448	444	439	433	432	425
10°	460	460	460	459	459	454	449	443	435	433	425
12.5°	471	473	471	468	468	461	453	445	436	434	425
15°	484	485	482	478	476	468	457	447	436	434	424
17.5°	498	497	493	487	486	474	460	447	435	432	422
20°	510	509	505	496	493	478	461	446	433	430	419
22.5°	519	518	513	502	498	480	460	443	429	426	415
25°	526	526	518	506	502	480	456	438	424	421	410
27.5°	530	529	520	506	502	477	452	431	416	414	404
30°	525	524	513	498	494	468	442	420	405	402	394
32.5°	509	505	496	480	476	450	423	404	389	386	380
35°	484	480	471	457	453	425	398	380	368	367	364
37.5°	451	453	440	428	421	399	374	355	344	344	343
40°	418	419	409	395	392	371	348	330	323	321	321
42.5°	384	386	377	366	362	341	319	305	295	296	294
45°	356	353	344	336	331	310	293	278	265	266	264
47.5°	316	317	309	299	299	280	260	242	231	230	227
50°	273	271	265	254	255	236	218	198	190	186	183
52.5°	214	219	215	209	202	189	171	160	148	144	144
55°	162	164	164	156	152	141	128	129	110	110	109
57.5°	130	128	123	120	118	108	97	88	84	84	82
60°	103	103	98	93	91	85	77	70	65	65	64
62.5°	80	80	77	72	72	65	59	54	52	51	52
65°	61	59	58	57	55	49	44	41	40	40	40
67.5°	44	44	42	41	40	38	34	31	30	31	31
70°	30	31	30	28	28	26	24	22	22	22	22
72.5°	21	20	18	17	19	16	15	14	14	13	14
75°	10	10	9	9	9	8	7	7	7	7	7
77.5°	3	3	3	3	3	3	3	3	4	4	4
80°	1	1	1	1	1	1	2	2	2	2	2
82.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: E395862
 CATALOG NUMBER: H600-1636C

CANDELA DISTRIBUTION (continued):

	85°	90°	112.5°	135°	157.5°	180°
0°	420	420	420	420	420	420
2.5°	420	419	416	414	412	410
5°	420	418	411	405	400	399
7.5°	419	417	405	396	390	387
10°	417	414	399	388	381	379
12.5°	415	410	392	381	373	370
15°	412	408	387	374	367	364
17.5°	410	404	381	368	361	359
20°	407	401	377	363	357	355
22.5°	403	398	373	359	353	350
25°	399	394	370	355	348	346
27.5°	394	390	367	351	341	338
30°	388	386	365	345	330	325
32.5°	378	377	360	335	315	310
35°	364	365	352	323	294	290
37.5°	348	352	340	303	274	265
40°	329	333	321	279	249	239
42.5°	302	306	295	251	221	216
45°	272	275	260	221	195	192
47.5°	232	233	218	188	174	173
50°	187	187	174	159	151	152
52.5°	144	146	141	132	132	133
55°	111	111	110	109	114	115
57.5°	85	87	89	92	98	101
60°	67	69	73	77	82	83
62.5°	54	55	60	62	67	67
65°	42	43	46	48	53	54
67.5°	32	34	36	38	41	42
70°	23	23	26	27	31	30
72.5°	14	14	16	17	21	20
75°	8	8	9	11	13	13
77.5°	5	5	6	7	8	7
80°	3	3	3	4	5	4
82.5°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0

(END OF REPORT)