

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: E395858

Luminaire Tested: **H600-1636C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395858
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: 75R30FL, 900 LUMENS
Ballast/Driver: -

Summary

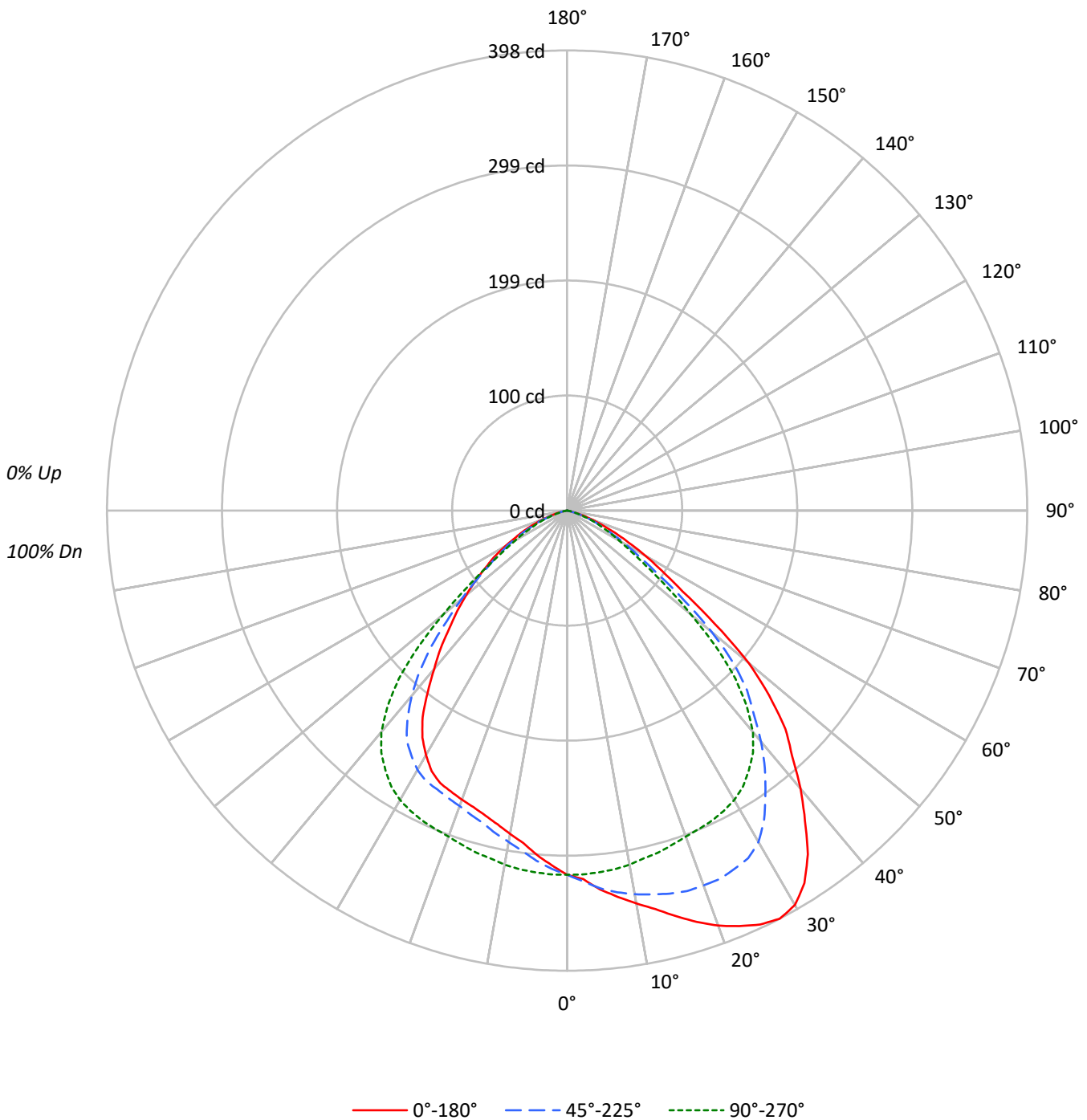
Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 714.7 lumens
Efficiency: 79.4%
Efficacy: 9.5 lumens/watt
Spacing Criteria (0/90/45): 1.41 / 1.35 / 1.35
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 75
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: E395858
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°	30.0	4.2	3.3
10°-20°	88.5	12.4	9.8
20°-30°	142.0	19.9	15.8
30°-40°	171.4	24.0	19.0
40°-50°	151.0	21.1	16.8
50°-60°	85.5	12.0	9.5
60°-70°	37.0	5.2	4.1
70°-80°	9.0	1.3	1.0
80°-90°	0.3	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°	260.5	36.4	28.9
0°-40°	431.9	60.4	48.0
0°-60°	668.4	93.5	74.3
0°-90°	714.7	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°	714.7	100.0	79.4

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	315	315	315	315	315	
5°	329	328	314	304	299	32
15°	363	343	306	280	273	103
25°	395	342	296	266	260	182
35°	363	299	274	242	218	225
45°	267	220	206	166	144	202
55°	122	96	83	82	86	116
65°	46	33	32	36	41	47
75°	8	5	6	8	10	10
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°	315	315	315	315	315	315	315	315	315	315	315
2.5°	319	320	321	321	322	323	321	321	319	319	316
5°	329	328	330	329	331	329	328	326	323	322	318
7.5°	337	337	337	337	337	336	333	329	325	324	319
10°	345	345	345	344	344	341	337	332	326	325	319
12.5°	353	355	353	351	351	346	340	334	327	325	319
15°	363	364	361	358	357	351	343	335	327	325	318
17.5°	373	373	370	366	364	356	345	335	327	324	316
20°	382	382	379	372	370	359	345	335	325	323	314
22.5°	389	389	385	376	374	360	345	332	322	320	311
25°	395	395	389	379	377	360	342	328	318	315	308
27.5°	398	397	390	379	376	358	339	323	312	310	303
30°	394	393	384	374	371	351	331	315	303	301	295
32.5°	382	379	372	360	357	337	317	303	292	289	285
35°	363	360	353	342	340	319	299	285	276	276	273
37.5°	338	340	330	321	316	299	281	266	258	258	257
40°	314	314	307	296	294	278	261	248	242	241	241
42.5°	288	290	283	274	271	255	239	228	221	222	221
45°	267	265	258	252	248	233	220	209	199	199	198
47.5°	237	237	232	224	224	210	195	181	173	173	170
50°	205	203	199	191	191	177	163	149	143	140	137
52.5°	161	164	161	157	152	142	128	120	111	108	108
55°	122	123	123	117	114	106	96	96	83	83	82
57.5°	97	96	92	90	88	81	73	66	63	63	62
60°	78	77	73	70	68	64	58	53	49	48	48
62.5°	60	60	58	54	54	49	44	40	39	38	39
65°	46	45	44	42	41	36	33	31	30	30	30
67.5°	33	33	31	31	30	28	26	24	22	23	23
70°	23	24	23	21	21	19	18	17	16	16	16
72.5°	15	15	14	13	14	12	11	11	10	10	10
75°	8	7	7	7	7	6	5	5	5	5	5
77.5°	2	2	2	2	2	2	2	2	3	3	3
80°	1	1	1	1	1	1	1	1	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: E395858
 CATALOG NUMBER: H600-1636C

CANDELA DISTRIBUTION (continued):

	85°	90°	112.5°	135°	157.5°	180°
0°	315	315	315	315	315	315
2.5°	315	315	312	310	309	307
5°	315	314	308	304	300	299
7.5°	314	313	304	297	292	290
10°	313	311	299	291	286	284
12.5°	312	308	294	286	280	278
15°	309	306	290	280	275	273
17.5°	307	303	286	276	271	269
20°	305	300	282	272	267	266
22.5°	302	298	280	269	264	263
25°	299	296	278	266	261	260
27.5°	296	293	275	264	255	254
30°	291	289	273	259	248	244
32.5°	284	283	270	251	236	233
35°	273	274	264	242	221	218
37.5°	261	264	255	227	206	198
40°	247	250	240	209	187	179
42.5°	226	230	221	189	166	162
45°	204	206	195	166	147	144
47.5°	174	175	163	141	130	129
50°	140	140	131	119	114	114
52.5°	108	109	106	99	99	100
55°	83	83	83	82	86	86
57.5°	64	65	67	69	74	75
60°	50	52	55	58	61	62
62.5°	40	41	45	46	50	50
65°	31	32	34	36	40	41
67.5°	24	25	27	29	31	31
70°	17	17	19	20	23	23
72.5°	10	11	12	13	16	15
75°	6	6	7	8	10	10
77.5°	4	4	4	5	6	6
80°	2	2	3	3	4	3
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)