

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: E395853

Luminaire Tested: **H600-1636C**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: E395853  
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, 0 DEG. TILT  
Light Source: 150R40SP, 1900 LUMENS  
Ballast/Driver: -

**Summary**

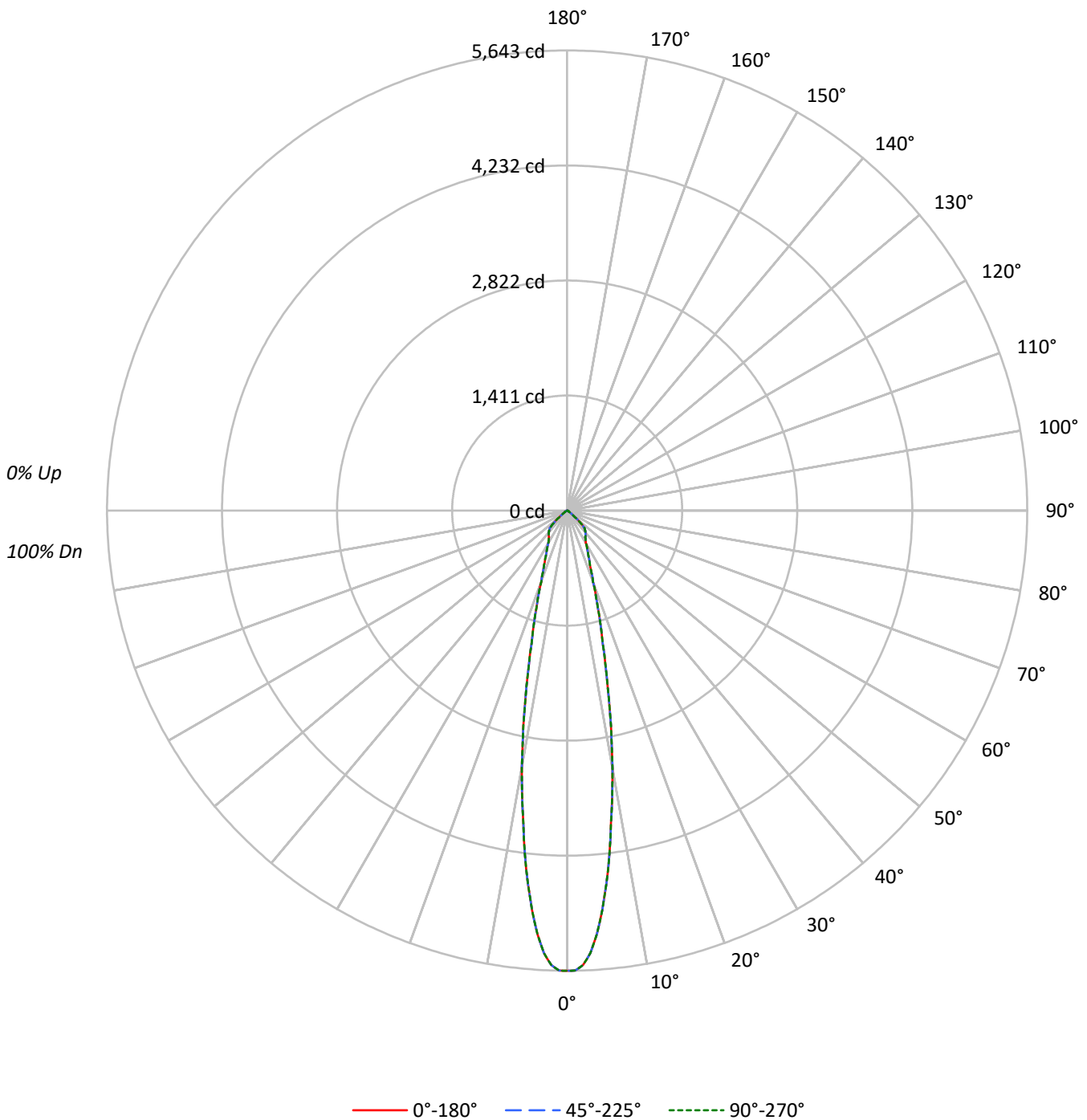
Lumens per Lamp: 1900 (1 lamp)  
Luminaire Lumens: 1735.0 lumens  
Efficiency: 91.3%  
Efficacy: 11.6 lumens/watt  
Spacing Criteria (0/90/45): 0.38 / 0.38 / 0.4  
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 150  
Input Voltage (V): NR  
Input Current (Ain): 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: E395853  
CATALOG NUMBER: H600-1636C

### Luminous Intensity Polar Plot





TEST NUMBER: E395853  
 CATALOG NUMBER: H600-1636C

**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	109	109	109	109	106	106	106	106	101	101	101	97	97	97	93	93	93	91
1	104	101	99	97	101	99	97	95	96	94	92	92	91	90	89	88	87	85
2	99	94	91	88	97	93	89	87	90	87	85	87	85	83	85	83	81	80
3	94	88	84	80	92	87	83	80	85	81	78	82	79	77	80	78	76	74
4	89	83	78	74	88	82	77	74	80	76	73	78	75	72	76	73	71	70
5	85	78	73	69	84	77	72	69	76	71	68	74	70	68	73	69	67	66
6	82	74	69	65	80	73	68	65	72	67	64	70	67	64	69	66	63	62
7	78	70	65	61	77	69	64	61	68	64	61	67	63	60	66	63	60	59
8	75	67	61	58	74	66	61	58	65	61	58	64	60	57	63	60	57	56
9	72	64	59	55	71	63	58	55	62	58	55	62	58	55	61	57	55	53
10	69	61	56	53	68	61	56	53	60	55	53	59	55	52	58	55	52	51

**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: E395853  
 CATALOG NUMBER: H600-1636C

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	411.0	23.7	21.6
10°-20°	487.1	28.1	25.6
20°-30°	293.9	16.9	15.5
30°-40°	247.4	14.3	13.0
40°-50°	207.2	11.9	10.9
50°-60°	54.5	3.1	2.9
60°-70°	20.8	1.2	1.1
70°-80°	10.5	0.6	0.6
80°-90°	2.4	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°	1192.1	68.7	62.7
0°-40°	1439.5	83.0	75.8
0°-60°	1701.2	98.1	89.5
0°-90°	1735.0	100.0	91.3
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°	1735.0	100.0	91.3

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5643	5643	5643	5643	5643	
5°	4921	4921	4921	4921	4921	411
15°	1690	1690	1690	1690	1690	487
25°	625	625	625	625	625	294
35°	389	389	389	389	389	247
45°	299	299	299	299	299	207
55°	43	43	43	43	43	54
65°	20	20	20	20	20	21
75°	10	10	10	10	10	11
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



TEST NUMBER: E395853  
 CATALOG NUMBER: H600-1636C

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	5643	5643	5643	5643	5643	5643	5643	5643	5643
1°	5641	5641	5641	5641	5641	5641	5641	5641	5641
2°	5578	5578	5578	5578	5578	5578	5578	5578	5578
3°	5432	5432	5432	5432	5432	5432	5432	5432	5432
4°	5209	5209	5209	5209	5209	5209	5209	5209	5209
5°	4921	4921	4921	4921	4921	4921	4921	4921	4921
6°	4607	4607	4607	4607	4607	4607	4607	4607	4607
7°	4247	4247	4247	4247	4247	4247	4247	4247	4247
8°	3870	3870	3870	3870	3870	3870	3870	3870	3870
9°	3531	3531	3531	3531	3531	3531	3531	3531	3531
10°	3197	3197	3197	3197	3197	3197	3197	3197	3197
11°	2849	2849	2849	2849	2849	2849	2849	2849	2849
12°	2526	2526	2526	2526	2526	2526	2526	2526	2526
13°	2213	2213	2213	2213	2213	2213	2213	2213	2213
14°	1936	1936	1936	1936	1936	1936	1936	1936	1936
15°	1690	1690	1690	1690	1690	1690	1690	1690	1690
17.5°	1251	1251	1251	1251	1251	1251	1251	1251	1251
20°	929	929	929	929	929	929	929	929	929
22.5°	741	741	741	741	741	741	741	741	741
25°	625	625	625	625	625	625	625	625	625
27.5°	532	532	532	532	532	532	532	532	532
30°	460	460	460	460	460	460	460	460	460
32.5°	417	417	417	417	417	417	417	417	417
35°	389	389	389	389	389	389	389	389	389
37.5°	372	372	372	372	372	372	372	372	372
40°	351	351	351	351	351	351	351	351	351
45°	299	299	299	299	299	299	299	299	299
50°	131	131	131	131	131	131	131	131	131
55°	43	43	43	43	43	43	43	43	43
60°	29	29	29	29	29	29	29	29	29
65°	20	20	20	20	20	20	20	20	20
70°	15	15	15	15	15	15	15	15	15
75°	10	10	10	10	10	10	10	10	10
80°	5	5	5	5	5	5	5	5	5
85°	2	2	2	2	2	2	2	2	2
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)