

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: E395829

Luminaire Tested: **H600-1603C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395829
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, HIGH S.S.
Light Source: 150PARSP, 1740 LUMENS
Ballast/Driver: -

Summary

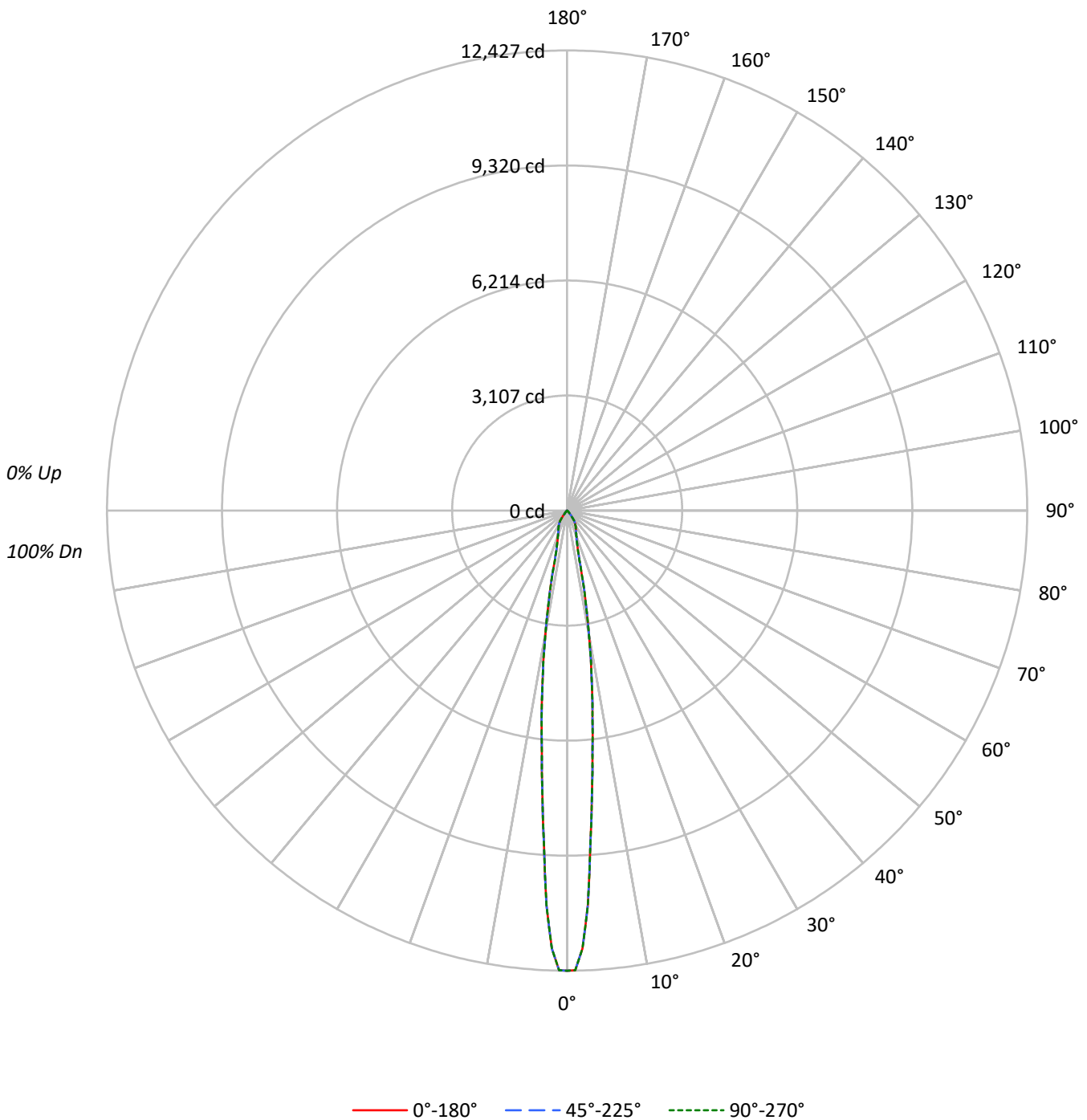
Lumens per Lamp: 1740 (1 lamp)
Luminaire Lumens: 1483.8 lumens
Efficiency: 85.3%
Efficacy: 9.9 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.25
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '
CIE Type: Direct

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



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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	102	102	102	102	99	99	99	99	95	95	95		91	91	91		87	87	87	85
1	98	96	94	93	96	94	93	91	91	89	88		88	87	86		85	84	83	82
2	94	91	88	86	92	90	87	85	87	85	83		84	83	81		82	81	80	78
3	91	87	83	81	89	85	82	80	83	81	79		81	79	78		80	78	76	75
4	88	83	79	76	86	82	79	76	80	77	75		79	76	74		77	75	73	72
5	85	79	76	73	84	79	75	72	77	74	72		76	73	71		75	72	71	70
6	82	76	72	70	81	76	72	69	75	71	69		73	71	69		72	70	68	67
7	80	74	70	67	79	73	69	67	72	69	67		71	68	66		70	68	66	65
8	77	71	67	65	76	71	67	65	70	67	64		69	66	64		68	66	64	63
9	75	69	65	63	74	69	65	63	68	65	62		67	64	62		67	64	62	61
10	73	67	63	61	72	67	63	61	66	63	61		65	62	60		65	62	60	59

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°	602.7	40.6	34.6
10°-20°	384.1	25.9	22.1
20°-30°	258.9	17.4	14.9
30°-40°	180.5	12.2	10.4
40°-50°	36.4	2.5	2.1
50°-60°	13.2	0.9	0.8
60°-70°	6.2	0.4	0.4
70°-80°	1.8	0.1	0.1
80°-90°	0.0	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°	1245.7	84.0	71.6
0°-40°	1426.2	96.1	82.0
0°-60°	1475.8	99.5	84.8
0°-90°	1483.8	100.0	85.3
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°	1483.8	100.0	85.3

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12427	12427	12427	12427	12427	
5°	7668	7668	7668	7668	7668	603
15°	1143	1143	1143	1143	1143	384
25°	559	559	559	559	559	259
35°	325	325	325	325	325	180
45°	32	32	32	32	32	36
55°	14	14	14	14	14	13
65°	6	6	6	6	6	6
75°	2	2	2	2	2	2
85°	0	0	0	0	0	0
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°	12427	12427	12427	12427	12427	12427	12427	12427	12427
1°	12415	12415	12415	12415	12415	12415	12415	12415	12415
2°	11840	11840	11840	11840	11840	11840	11840	11840	11840
3°	10675	10675	10675	10675	10675	10675	10675	10675	10675
4°	9003	9003	9003	9003	9003	9003	9003	9003	9003
5°	7668	7668	7668	7668	7668	7668	7668	7668	7668
6°	6540	6540	6540	6540	6540	6540	6540	6540	6540
7°	5636	5636	5636	5636	5636	5636	5636	5636	5636
8°	4800	4800	4800	4800	4800	4800	4800	4800	4800
9°	4091	4091	4091	4091	4091	4091	4091	4091	4091
10°	3372	3372	3372	3372	3372	3372	3372	3372	3372
11°	2737	2737	2737	2737	2737	2737	2737	2737	2737
12°	2250	2250	2250	2250	2250	2250	2250	2250	2250
13°	1757	1757	1757	1757	1757	1757	1757	1757	1757
14°	1374	1374	1374	1374	1374	1374	1374	1374	1374
15°	1143	1143	1143	1143	1143	1143	1143	1143	1143
17.5°	858	858	858	858	858	858	858	858	858
20°	723	723	723	723	723	723	723	723	723
22.5°	624	624	624	624	624	624	624	624	624
25°	559	559	559	559	559	559	559	559	559
27.5°	502	502	502	502	502	502	502	502	502
30°	444	444	444	444	444	444	444	444	444
32.5°	390	390	390	390	390	390	390	390	390
35°	325	325	325	325	325	325	325	325	325
37.5°	187	187	187	187	187	187	187	187	187
40°	107	107	107	107	107	107	107	107	107
45°	32	32	32	32	32	32	32	32	32
50°	21	21	21	21	21	21	21	21	21
55°	14	14	14	14	14	14	14	14	14
60°	10	10	10	10	10	10	10	10	10
65°	6	6	6	6	6	6	6	6	6
70°	3	3	3	3	3	3	3	3	3
75°	2	2	2	2	2	2	2	2	2
80°	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)