

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: E395824

Luminaire Tested: **H600-1603C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395824
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: 150R40SP, 1900 LUMENS
Ballast/Driver: -

Summary

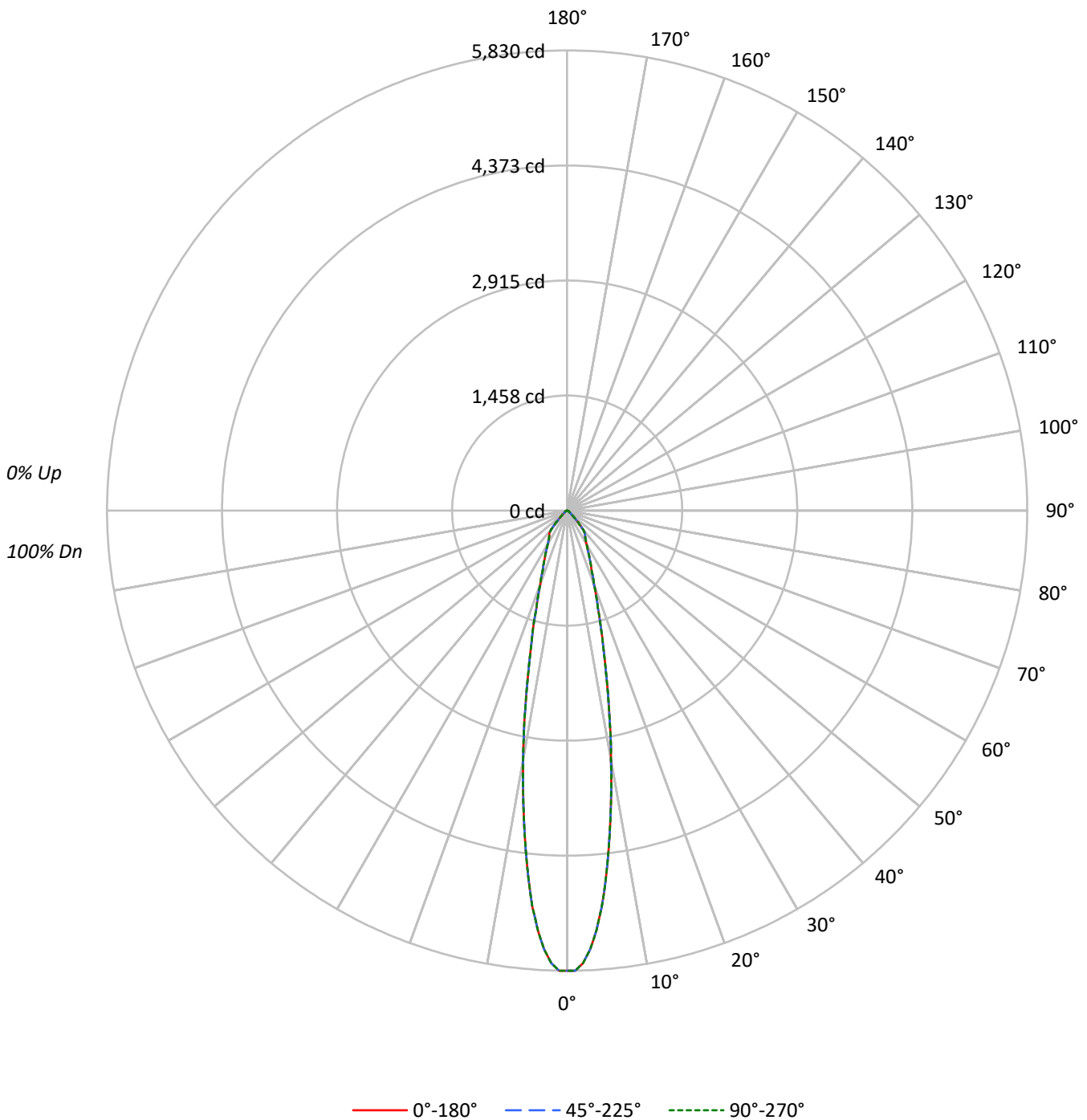
Lumens per Lamp: 1900 (1 lamp)
Luminaire Lumens: 1674.4 lumens
Efficiency: 88.1%
Efficacy: 11.2 lumens/watt
Spacing Criteria (0/90/45): 0.37 / 0.37 / 0.4
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 150
Input Voltage (V): NR
Input Current (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



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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	105	105	105	105	102	102	102	102	98	98	98		94	94	94		90	90	90	88
1	100	98	96	94	98	96	94	93	93	91	90		89	88	87		86	85	85	83
2	96	92	88	86	94	90	87	85	87	85	83		85	83	81		82	81	79	78
3	91	86	82	79	90	85	81	78	83	80	77		81	78	76		79	76	75	73
4	87	81	77	73	86	80	76	73	78	75	72		77	74	71		75	73	70	69
5	84	77	72	69	82	76	72	68	75	71	68		73	70	67		72	69	67	65
6	80	73	68	65	79	72	68	65	71	67	64		70	66	64		69	66	63	62
7	77	70	65	61	76	69	64	61	68	64	61		67	63	61		66	63	60	59
8	74	66	62	58	73	66	61	58	65	61	58		64	60	58		63	60	58	57
9	71	64	59	56	70	63	59	56	62	58	56		62	58	55		61	58	55	54
10	69	61	56	53	68	61	56	53	60	56	53		59	56	53		59	55	53	52

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°	418.7	25.0	22.0
10°-20°	500.4	29.9	26.3
20°-30°	316.6	18.9	16.7
30°-40°	250.1	14.9	13.2
40°-50°	121.3	7.2	6.4
50°-60°	38.4	2.3	2.0
60°-70°	21.3	1.3	1.1
70°-80°	7.1	0.4	0.4
80°-90°	0.5	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°	1235.7	73.8	65.0
0°-40°	1485.8	88.7	78.2
0°-60°	1645.5	98.3	86.6
0°-90°	1674.4	100.0	88.1
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°	1674.4	100.0	88.1

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5830	5830	5830	5830	5830	
5°	5042	5042	5042	5042	5042	419
15°	1756	1756	1756	1756	1756	500
25°	676	676	676	676	676	317
35°	397	397	397	397	397	250
45°	130	130	130	130	130	121
55°	41	41	41	41	41	38
65°	21	21	21	21	21	21
75°	6	6	6	6	6	7
85°	0	0	0	0	0	1
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°	5830	5830	5830	5830	5830	5830	5830	5830	5830
1°	5830	5830	5830	5830	5830	5830	5830	5830	5830
2°	5739	5739	5739	5739	5739	5739	5739	5739	5739
3°	5566	5566	5566	5566	5566	5566	5566	5566	5566
4°	5324	5324	5324	5324	5324	5324	5324	5324	5324
5°	5042	5042	5042	5042	5042	5042	5042	5042	5042
6°	4691	4691	4691	4691	4691	4691	4691	4691	4691
7°	4324	4324	4324	4324	4324	4324	4324	4324	4324
8°	3938	3938	3938	3938	3938	3938	3938	3938	3938
9°	3574	3574	3574	3574	3574	3574	3574	3574	3574
10°	3206	3206	3206	3206	3206	3206	3206	3206	3206
11°	2871	2871	2871	2871	2871	2871	2871	2871	2871
12°	2549	2549	2549	2549	2549	2549	2549	2549	2549
13°	2252	2252	2252	2252	2252	2252	2252	2252	2252
14°	1984	1984	1984	1984	1984	1984	1984	1984	1984
15°	1756	1756	1756	1756	1756	1756	1756	1756	1756
17.5°	1293	1293	1293	1293	1293	1293	1293	1293	1293
20°	997	997	997	997	997	997	997	997	997
22.5°	803	803	803	803	803	803	803	803	803
25°	676	676	676	676	676	676	676	676	676
27.5°	571	571	571	571	571	571	571	571	571
30°	490	490	490	490	490	490	490	490	490
32.5°	432	432	432	432	432	432	432	432	432
35°	397	397	397	397	397	397	397	397	397
37.5°	371	371	371	371	371	371	371	371	371
40°	319	319	319	319	319	319	319	319	319
45°	130	130	130	130	130	130	130	130	130
50°	59	59	59	59	59	59	59	59	59
55°	41	41	41	41	41	41	41	41	41
60°	31	31	31	31	31	31	31	31	31
65°	21	21	21	21	21	21	21	21	21
70°	13	13	13	13	13	13	13	13	13
75°	6	6	6	6	6	6	6	6	6
80°	2	2	2	2	2	2	2	2	2
85°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)