

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: E395821

Luminaire Tested: **H600-1603C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395821
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: 150R40FL, 1900 LUMENS
Ballast/Driver: -

Summary

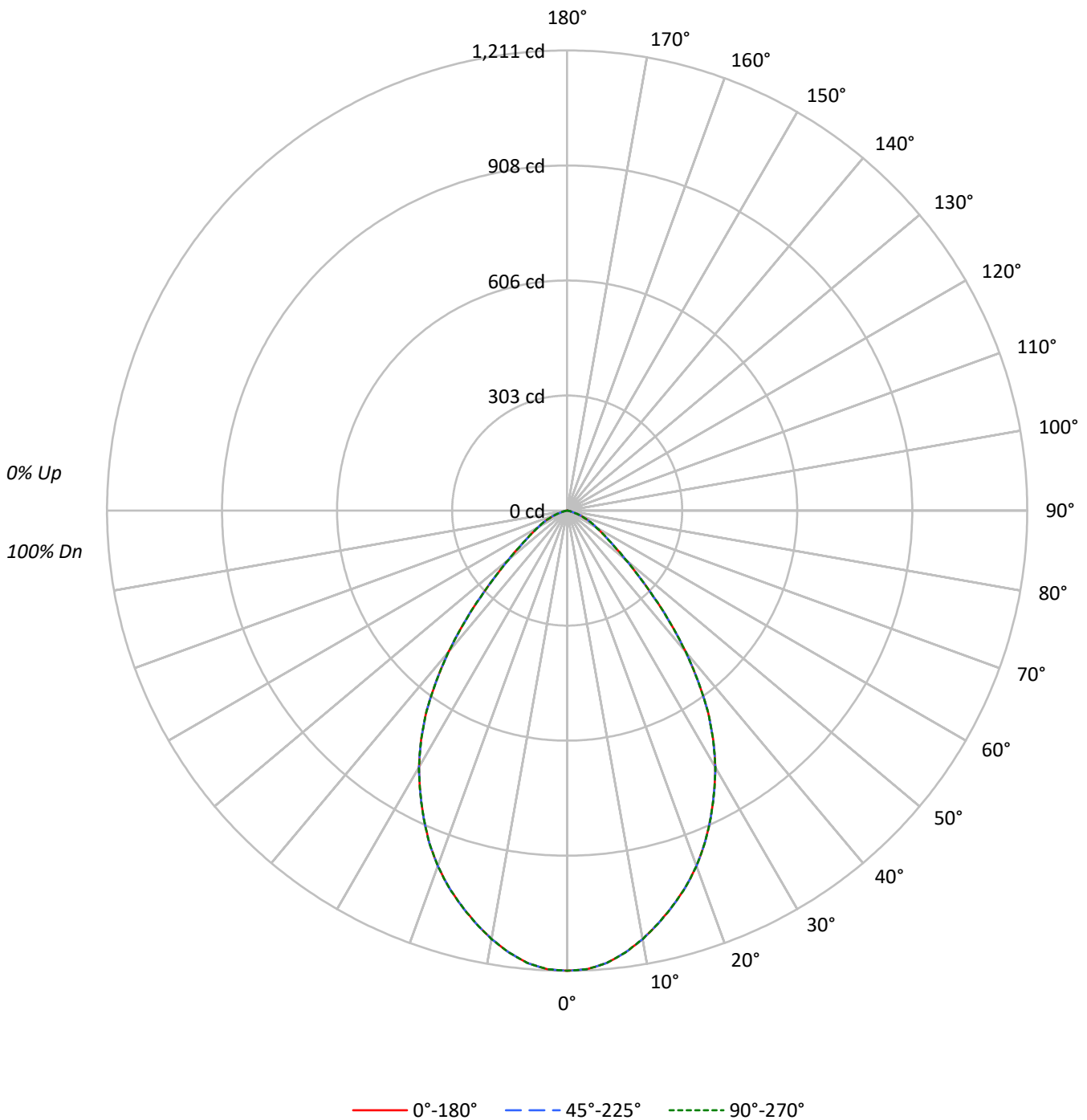
Lumens per Lamp: 1900 (1 lamp)
Luminaire Lumens: 1674.5 lumens
Efficiency: 88.1%
Efficacy: 11.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.06
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '
CIE Type: Direct

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	99	96	93	91	97	94	92	89	90	88	87		87	85	84		84	83	82	80
2	92	87	83	79	90	86	82	78	83	79	77		80	77	75		77	75	73	72
3	86	79	74	70	85	78	73	69	76	72	68		74	70	67		71	68	66	64
4	81	73	67	62	79	72	66	62	70	65	61		68	64	60		66	62	60	58
5	76	67	60	56	74	66	60	56	64	59	55		63	58	55		61	57	54	53
6	71	61	55	51	69	61	55	50	59	54	50		58	53	50		57	53	49	48
7	67	57	51	46	65	56	50	46	55	50	46		54	49	45		53	48	45	44
8	63	53	47	42	61	52	46	42	51	46	42		50	45	42		49	45	41	40
9	59	49	43	39	58	49	43	39	48	42	39		47	42	38		46	42	38	37
10	56	46	40	36	55	45	40	36	45	39	36		44	39	36		43	39	36	34

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°	112.4	6.7	5.9
10°-20°	302.3	18.1	15.9
20°-30°	409.5	24.5	21.6
30°-40°	398.2	23.8	21.0
40°-50°	253.1	15.1	13.3
50°-60°	120.3	7.2	6.3
60°-70°	60.1	3.6	3.2
70°-80°	17.5	1.0	0.9
80°-90°	1.1	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°	824.3	49.2	43.4
0°-40°	1222.5	73.0	64.3
0°-60°	1595.8	95.3	84.0
0°-90°	1674.5	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°	1674.5	100.0	88.1

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1211	1211	1211	1211	1211	
5°	1195	1195	1195	1195	1195	112
15°	1076	1076	1076	1076	1076	302
25°	893	893	893	893	893	410
35°	645	645	645	645	645	398
45°	323	323	323	323	323	253
55°	129	129	129	129	129	120
65°	60	60	60	60	60	60
75°	15	15	15	15	15	17
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°	1211	1211	1211	1211	1211	1211	1211	1211	1211
2.5°	1208	1208	1208	1208	1208	1208	1208	1208	1208
5°	1195	1195	1195	1195	1195	1195	1195	1195	1195
7.5°	1173	1173	1173	1173	1173	1173	1173	1173	1173
10°	1145	1145	1145	1145	1145	1145	1145	1145	1145
12.5°	1112	1112	1112	1112	1112	1112	1112	1112	1112
15°	1076	1076	1076	1076	1076	1076	1076	1076	1076
17.5°	1038	1038	1038	1038	1038	1038	1038	1038	1038
20°	995	995	995	995	995	995	995	995	995
22.5°	947	947	947	947	947	947	947	947	947
25°	893	893	893	893	893	893	893	893	893
27.5°	837	837	837	837	837	837	837	837	837
30°	780	780	780	780	780	780	780	780	780
32.5°	715	715	715	715	715	715	715	715	715
35°	645	645	645	645	645	645	645	645	645
37.5°	566	566	566	566	566	566	566	566	566
40°	485	485	485	485	485	485	485	485	485
42.5°	402	402	402	402	402	402	402	402	402
45°	323	323	323	323	323	323	323	323	323
47.5°	255	255	255	255	255	255	255	255	255
50°	201	201	201	201	201	201	201	201	201
52.5°	160	160	160	160	160	160	160	160	160
55°	129	129	129	129	129	129	129	129	129
57.5°	107	107	107	107	107	107	107	107	107
60°	88	88	88	88	88	88	88	88	88
62.5°	75	75	75	75	75	75	75	75	75
65°	60	60	60	60	60	60	60	60	60
67.5°	47	47	47	47	47	47	47	47	47
70°	35	35	35	35	35	35	35	35	35
72.5°	24	24	24	24	24	24	24	24	24
75°	15	15	15	15	15	15	15	15	15
77.5°	8	8	8	8	8	8	8	8	8
80°	4	4	4	4	4	4	4	4	4
82.5°	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)