

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: E395890

Luminaire Tested: **H600-1603P**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395890
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H600-1603P
Description: HALO RECESSED INC. PAINTED CONE, LOW S.S.
Light Source: 150A21, 2790 LUMENS
Ballast/Driver: -

Summary

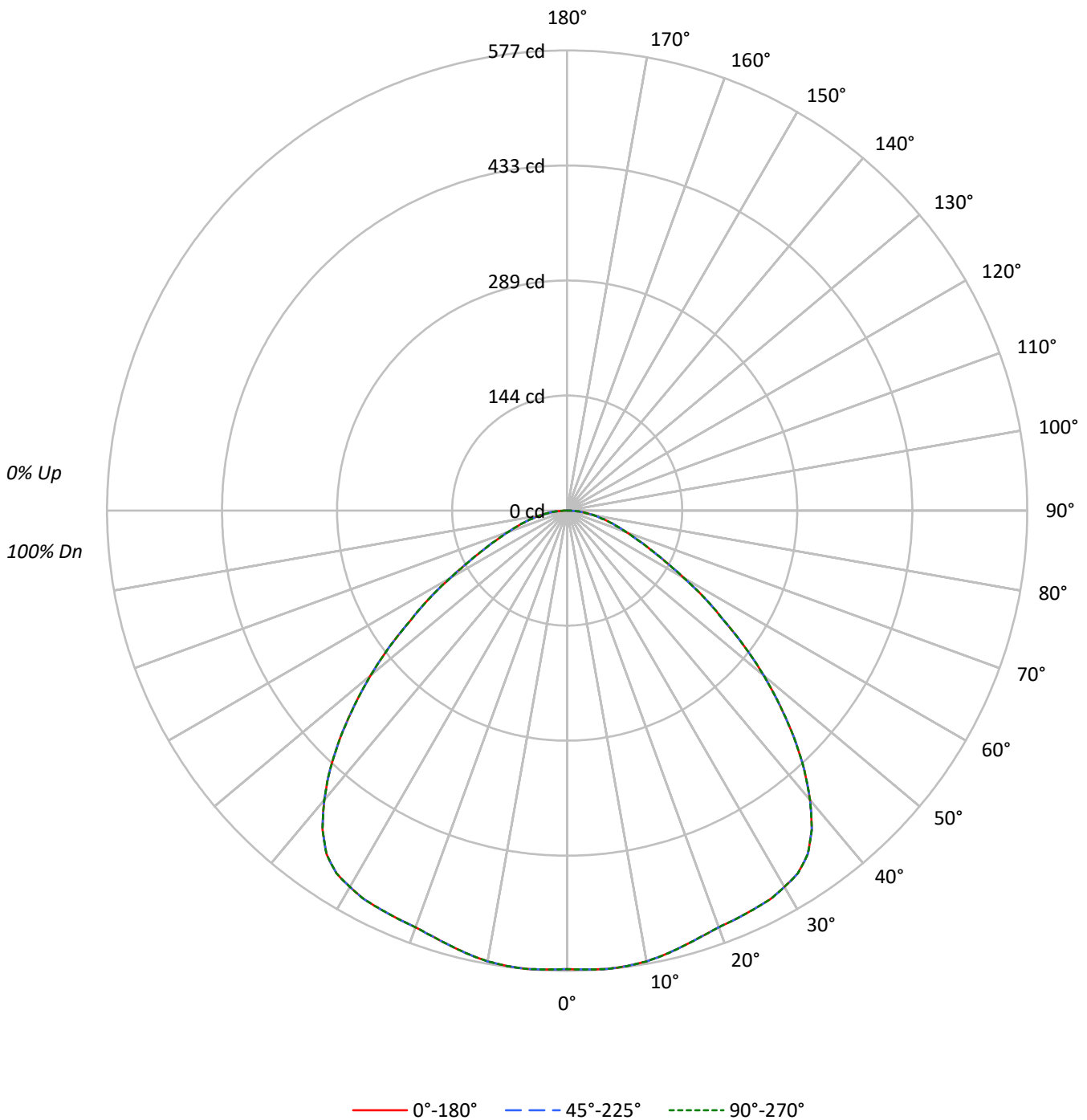
Lumens per Lamp: 2790 (1 lamp)
Luminaire Lumens: 1513.2 lumens
Efficiency: 54.2%
Efficacy: 10.1 lumens/watt
Spacing Criteria (0/90/45): 1.41 / 1.41 / 1.41
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '
CIE Type: Direct

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	65	65	65	65	63	63	63	63	60	60	60		58	58	58		55	55	55	54
1	60	57	55	53	58	56	54	53	54	52	51		52	51	49		50	49	48	47
2	55	51	47	45	53	50	47	44	48	45	43		46	44	42		45	43	41	40
3	50	45	41	38	49	44	41	38	43	39	37		41	39	36		40	38	36	35
4	46	40	36	33	45	40	35	32	38	35	32		37	34	31		36	33	31	30
5	43	36	32	28	42	36	31	28	35	31	28		33	30	28		33	30	27	26
6	40	33	28	25	39	32	28	25	31	27	25		30	27	24		30	27	24	23
7	37	30	25	22	36	29	25	22	29	25	22		28	24	22		27	24	22	20
8	34	27	23	20	33	27	23	20	26	22	20		25	22	19		25	22	19	18
9	32	25	21	18	31	25	21	18	24	20	18		23	20	18		23	20	17	17
10	30	23	19	16	29	23	19	16	22	19	16		22	18	16		21	18	16	15

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°	55.0	3.6	2.0
10°-20°	159.9	10.6	5.7
20°-30°	255.2	16.9	9.1
30°-40°	325.6	21.5	11.7
40°-50°	308.5	20.4	11.1
50°-60°	216.4	14.3	7.8
60°-70°	116.8	7.7	4.2
70°-80°	57.9	3.8	2.1
80°-90°	18.0	1.2	0.6
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°	470.0	31.1	16.8
0°-40°	795.6	52.6	28.5
0°-60°	1320.5	87.3	47.3
0°-90°	1513.2	100.0	54.2
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°	1513.2	100.0	54.2

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	575	575	575	575	575	
5°	577	577	577	577	577	55
15°	565	565	565	565	565	160
25°	552	552	552	552	552	255
35°	526	526	526	526	526	326
45°	402	402	402	402	402	309
55°	239	239	239	239	239	216
65°	115	115	115	115	115	117
75°	54	54	54	54	54	58
85°	16	16	16	16	16	18
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°	575	575	575	575	575	575	575	575	575
2.5°	576	576	576	576	576	576	576	576	576
5°	577	577	577	577	577	577	577	577	577
7.5°	576	576	576	576	576	576	576	576	576
10°	574	574	574	574	574	574	574	574	574
12.5°	570	570	570	570	570	570	570	570	570
15°	565	565	565	565	565	565	565	565	565
17.5°	560	560	560	560	560	560	560	560	560
20°	556	556	556	556	556	556	556	556	556
22.5°	554	554	554	554	554	554	554	554	554
25°	552	552	552	552	552	552	552	552	552
27.5°	550	550	550	550	550	550	550	550	550
30°	545	545	545	545	545	545	545	545	545
32.5°	539	539	539	539	539	539	539	539	539
35°	526	526	526	526	526	526	526	526	526
37.5°	504	504	504	504	504	504	504	504	504
40°	474	474	474	474	474	474	474	474	474
42.5°	440	440	440	440	440	440	440	440	440
45°	402	402	402	402	402	402	402	402	402
47.5°	362	362	362	362	362	362	362	362	362
50°	322	322	322	322	322	322	322	322	322
52.5°	281	281	281	281	281	281	281	281	281
55°	239	239	239	239	239	239	239	239	239
57.5°	205	205	205	205	205	205	205	205	205
60°	169	169	169	169	169	169	169	169	169
62.5°	139	139	139	139	139	139	139	139	139
65°	115	115	115	115	115	115	115	115	115
67.5°	95	95	95	95	95	95	95	95	95
70°	79	79	79	79	79	79	79	79	79
72.5°	66	66	66	66	66	66	66	66	66
75°	54	54	54	54	54	54	54	54	54
77.5°	43	43	43	43	43	43	43	43	43
80°	34	34	34	34	34	34	34	34	34
82.5°	25	25	25	25	25	25	25	25	25
85°	16	16	16	16	16	16	16	16	16
87.5°	8	8	8	8	8	8	8	8	8
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)