

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: E395885

Luminaire Tested: **H600-1603P**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395885
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, HIGH S.S.
Light Source: 150R40SP, 1900 LUMENS
Ballast/Driver: -

Summary

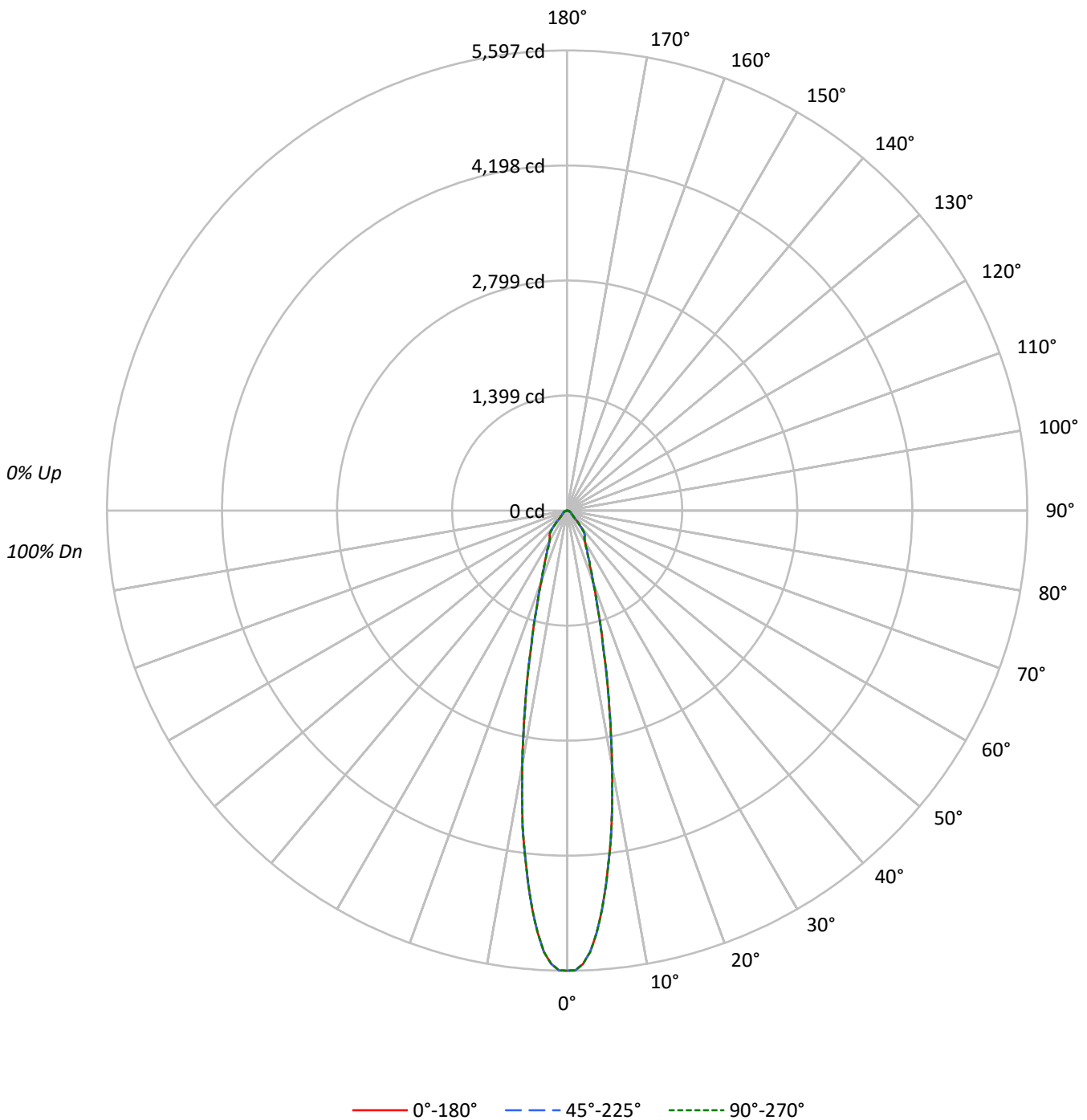
Lumens per Lamp: 1900 (1 lamp)
Luminaire Lumens: 1638.8 lumens
Efficiency: 86.3%
Efficacy: 10.9 lumens/watt
Spacing Criteria (0/90/45): 0.37 / 0.37 / 0.39
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '
CIE Type: Direct

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	103	103	103	103	100	100	100	100	96	96	96		92	92	92		88	88	88	86
1	98	95	93	91	96	93	91	90	90	88	87		87	85	84		84	83	82	80
2	93	89	85	82	91	87	84	81	84	82	80		82	80	78		79	78	76	75
3	89	83	79	75	87	82	78	75	80	76	74		77	75	72		76	73	71	70
4	84	78	73	70	83	77	73	69	75	72	69		74	70	68		72	69	67	66
5	81	74	69	65	79	73	68	65	71	68	65		70	67	64		69	66	63	62
6	77	70	65	62	76	69	65	61	68	64	61		67	63	61		66	63	60	59
7	74	67	62	58	73	66	61	58	65	61	58		64	60	58		63	60	57	56
8	71	64	59	56	70	63	59	55	62	58	55		61	58	55		61	57	55	54
9	69	61	56	53	68	61	56	53	60	56	53		59	55	53		58	55	52	51
10	66	58	54	51	65	58	54	51	57	53	51		57	53	51		56	53	50	49

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°	407.6	24.9	21.5
10°-20°	479.2	29.2	25.2
20°-30°	282.7	17.2	14.9
30°-40°	226.2	13.8	11.9
40°-50°	110.3	6.7	5.8
50°-60°	58.8	3.6	3.1
60°-70°	42.3	2.6	2.2
70°-80°	24.5	1.5	1.3
80°-90°	7.1	0.4	0.4
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°	1169.4	71.4	61.5
0°-40°	1395.7	85.2	73.5
0°-60°	1564.8	95.5	82.4
0°-90°	1638.8	100.0	86.3
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°	1638.8	100.0	86.3

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5597	5597	5597	5597	5597	
5°	4873	4873	4873	4873	4873	408
15°	1675	1675	1675	1675	1675	479
25°	599	599	599	599	599	283
35°	372	372	372	372	372	226
45°	117	117	117	117	117	110
55°	65	65	65	65	65	59
65°	42	42	42	42	42	42
75°	23	23	23	23	23	25
85°	6	6	6	6	6	7
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°	5597	5597	5597	5597	5597	5597	5597	5597	5597
1°	5594	5594	5594	5594	5594	5594	5594	5594	5594
2°	5518	5518	5518	5518	5518	5518	5518	5518	5518
3°	5376	5376	5376	5376	5376	5376	5376	5376	5376
4°	5150	5150	5150	5150	5150	5150	5150	5150	5150
5°	4873	4873	4873	4873	4873	4873	4873	4873	4873
6°	4547	4547	4547	4547	4547	4547	4547	4547	4547
7°	4211	4211	4211	4211	4211	4211	4211	4211	4211
8°	3884	3884	3884	3884	3884	3884	3884	3884	3884
9°	3508	3508	3508	3508	3508	3508	3508	3508	3508
10°	3141	3141	3141	3141	3141	3141	3141	3141	3141
11°	2797	2797	2797	2797	2797	2797	2797	2797	2797
12°	2478	2478	2478	2478	2478	2478	2478	2478	2478
13°	2185	2185	2185	2185	2185	2185	2185	2185	2185
14°	1916	1916	1916	1916	1916	1916	1916	1916	1916
15°	1675	1675	1675	1675	1675	1675	1675	1675	1675
17.5°	1218	1218	1218	1218	1218	1218	1218	1218	1218
20°	918	918	918	918	918	918	918	918	918
22.5°	727	727	727	727	727	727	727	727	727
25°	599	599	599	599	599	599	599	599	599
27.5°	500	500	500	500	500	500	500	500	500
30°	427	427	427	427	427	427	427	427	427
32.5°	390	390	390	390	390	390	390	390	390
35°	372	372	372	372	372	372	372	372	372
37.5°	343	343	343	343	343	343	343	343	343
40°	265	265	265	265	265	265	265	265	265
45°	117	117	117	117	117	117	117	117	117
50°	79	79	79	79	79	79	79	79	79
55°	65	65	65	65	65	65	65	65	65
60°	54	54	54	54	54	54	54	54	54
65°	42	42	42	42	42	42	42	42	42
70°	33	33	33	33	33	33	33	33	33
75°	23	23	23	23	23	23	23	23	23
80°	14	14	14	14	14	14	14	14	14
85°	6	6	6	6	6	6	6	6	6
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)