

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: E395888

Luminaire Tested: **H600-1603P**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: E395888  
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: 150PAR38FL, 1740 LUMENS  
Ballast/Driver: -

**Summary**

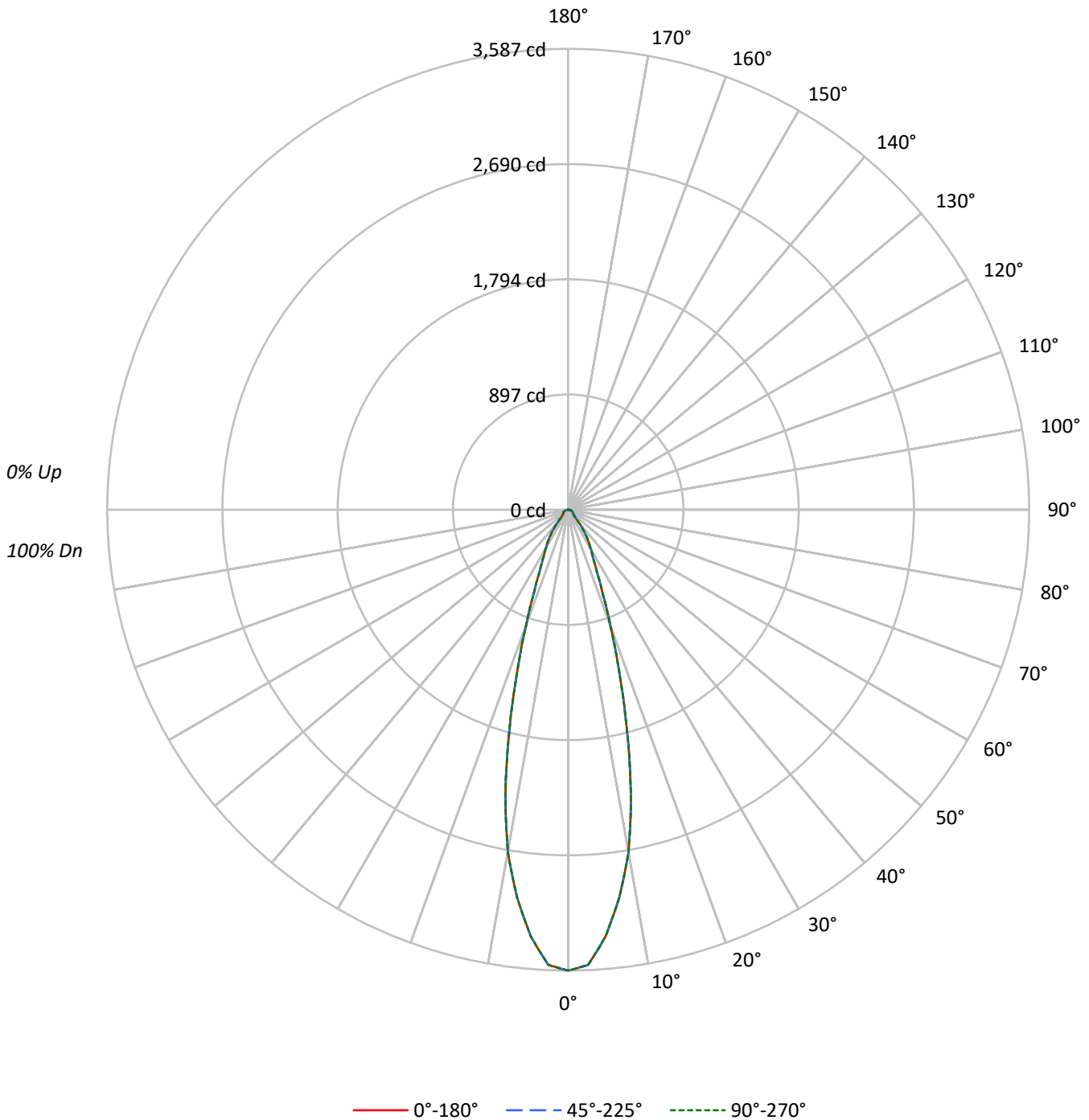
Lumens per Lamp: 1740 (1 lamp)  
Luminaire Lumens: 1341.6 lumens  
Efficiency: 77.1%  
Efficacy: 8.9 lumens/watt  
Spacing Criteria (0/90/45): 0.5 / 0.5 / 0.49  
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 150  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	92	92	92	92	90	90	90	90	86	86	86		82	82	82		79	79	79	77
1	87	85	83	82	86	84	82	80	80	79	78		78	76	75		75	74	73	72
2	83	80	76	74	82	78	75	73	76	73	71		73	72	70		71	70	68	67
3	79	75	71	68	78	74	70	67	72	69	66		70	67	65		68	66	64	63
4	76	70	66	63	75	70	66	63	68	65	62		66	64	61		65	63	61	60
5	73	67	62	59	71	66	62	59	65	61	59		63	60	58		62	60	58	57
6	70	63	59	56	69	63	59	56	62	58	56		61	58	55		60	57	55	54
7	67	60	56	53	66	60	56	53	59	55	53		58	55	53		57	54	52	51
8	64	58	54	51	64	57	53	51	57	53	50		56	53	50		55	52	50	49
9	62	55	51	49	61	55	51	49	54	51	48		54	51	48		53	50	48	47
10	60	53	49	47	59	53	49	47	52	49	46		52	49	46		51	48	46	45

**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°	298.0	22.2	17.1
10°-20°	481.4	35.9	27.7
20°-30°	256.3	19.1	14.7
30°-40°	144.4	10.8	8.3
40°-50°	54.6	4.1	3.1
50°-60°	42.4	3.2	2.4
60°-70°	36.4	2.7	2.1
70°-80°	21.5	1.6	1.2
80°-90°	6.5	0.5	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°	1035.7	77.2	59.5
0°-40°	1180.1	88.0	67.8
0°-60°	1277.2	95.2	73.4
0°-90°	1341.6	100.0	77.1
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°	1341.6	100.0	77.1

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3587	3587	3587	3587	3587	
5°	3333	3333	3333	3333	3333	298
15°	1761	1761	1761	1761	1761	481
25°	519	519	519	519	519	256
35°	237	237	237	237	237	144
45°	63	63	63	63	63	55
55°	47	47	47	47	47	42
65°	37	37	37	37	37	36
75°	20	20	20	20	20	21
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°	3587	3587	3587	3587	3587	3587	3587	3587	3587
2.5°	3546	3546	3546	3546	3546	3546	3546	3546	3546
5°	3333	3333	3333	3333	3333	3333	3333	3333	3333
7.5°	3045	3045	3045	3045	3045	3045	3045	3045	3045
10°	2704	2704	2704	2704	2704	2704	2704	2704	2704
12.5°	2253	2253	2253	2253	2253	2253	2253	2253	2253
15°	1761	1761	1761	1761	1761	1761	1761	1761	1761
17.5°	1313	1313	1313	1313	1313	1313	1313	1313	1313
20°	960	960	960	960	960	960	960	960	960
22.5°	694	694	694	694	694	694	694	694	694
25°	519	519	519	519	519	519	519	519	519
27.5°	416	416	416	416	416	416	416	416	416
30°	350	350	350	350	350	350	350	350	350
32.5°	292	292	292	292	292	292	292	292	292
35°	237	237	237	237	237	237	237	237	237
37.5°	173	173	173	173	173	173	173	173	173
40°	121	121	121	121	121	121	121	121	121
42.5°	81	81	81	81	81	81	81	81	81
45°	63	63	63	63	63	63	63	63	63
47.5°	55	55	55	55	55	55	55	55	55
50°	52	52	52	52	52	52	52	52	52
52.5°	50	50	50	50	50	50	50	50	50
55°	47	47	47	47	47	47	47	47	47
57.5°	45	45	45	45	45	45	45	45	45
60°	43	43	43	43	43	43	43	43	43
62.5°	40	40	40	40	40	40	40	40	40
65°	37	37	37	37	37	37	37	37	37
67.5°	34	34	34	34	34	34	34	34	34
70°	29	29	29	29	29	29	29	29	29
72.5°	25	25	25	25	25	25	25	25	25
75°	20	20	20	20	20	20	20	20	20
77.5°	16	16	16	16	16	16	16	16	16
80°	12	12	12	12	12	12	12	12	12
82.5°	9	9	9	9	9	9	9	9	9
85°	6	6	6	6	6	6	6	6	6
87.5°	3	3	3	3	3	3	3	3	3
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)