

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: E395887

Luminaire Tested: **H600-1603P**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395887
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: 150PAR38SP, 1740 LUMENS
Ballast/Driver: -

Summary

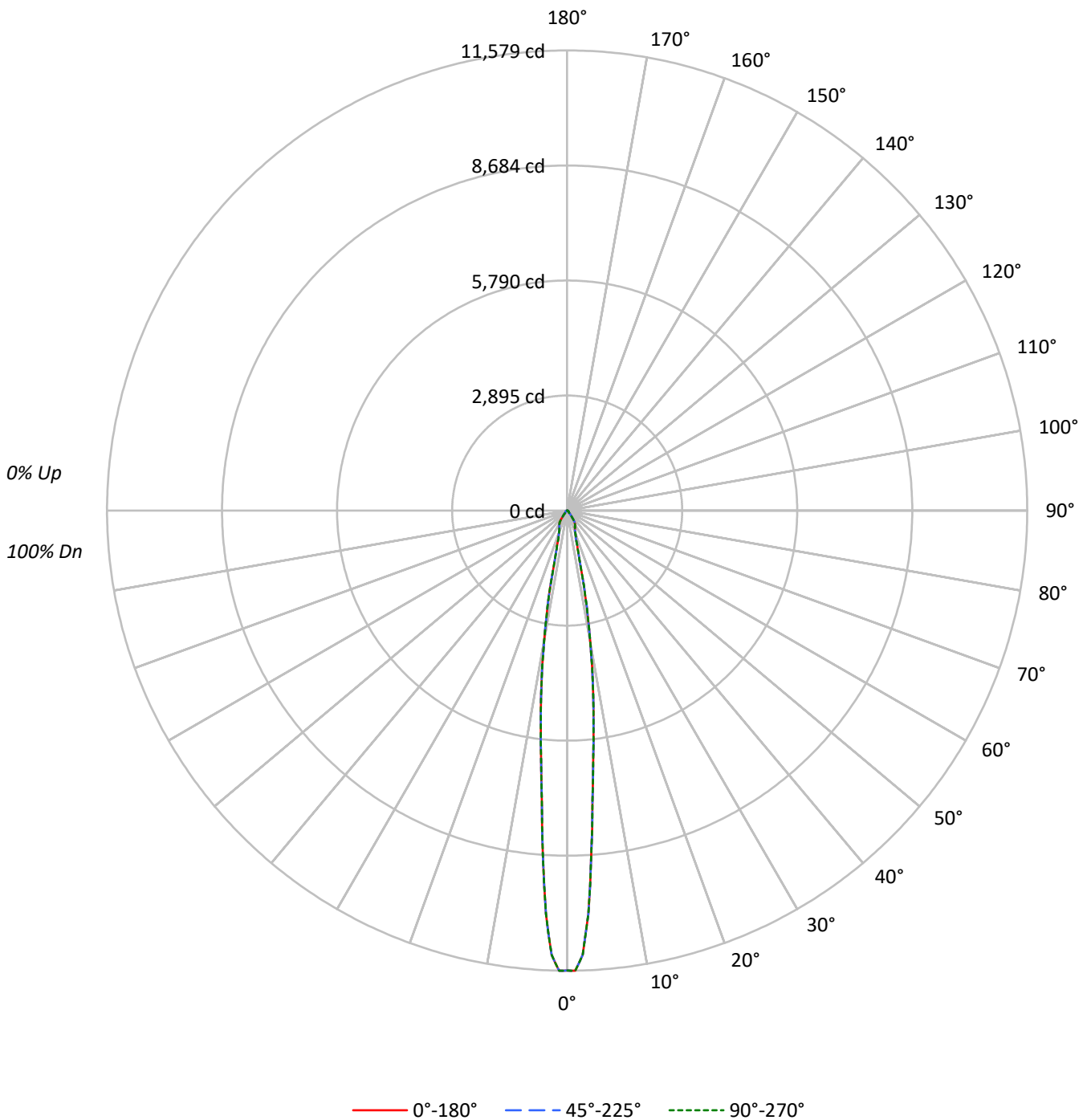
Lumens per Lamp: 1740 (1 lamp)
Luminaire Lumens: 1455.0 lumens
Efficiency: 83.6%
Efficacy: 9.7 lumens/watt
Spacing Criteria (0/90/45): 0.23 / 0.23 / 0.26
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): 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	100	100	100	100	97	97	97	97	93	93	93		89	89	89		85	85	85	84
1	95	93	91	90	93	91	90	88	88	87	85		85	84	83		82	81	80	79
2	91	88	85	82	90	86	84	81	84	81	79		81	79	78		79	77	76	75
3	88	83	79	77	86	82	79	76	80	77	75		78	76	74		76	74	73	71
4	84	79	75	72	83	78	75	72	76	73	71		75	72	70		73	71	69	68
5	81	76	72	69	80	75	71	68	73	70	68		72	69	67		71	69	67	65
6	79	73	69	66	78	72	68	65	71	67	65		70	67	65		69	66	64	63
7	76	70	66	63	75	69	66	63	68	65	63		68	65	62		67	64	62	61
8	74	68	64	61	73	67	63	61	66	63	60		66	62	60		65	62	60	59
9	72	65	62	59	71	65	61	59	64	61	59		64	61	58		63	60	58	57
10	70	63	60	57	69	63	60	57	63	59	57		62	59	57		61	59	57	56

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°	581.0	39.9	33.4
10°-20°	357.8	24.6	20.6
20°-30°	215.9	14.8	12.4
30°-40°	157.4	10.8	9.0
40°-50°	46.8	3.2	2.7
50°-60°	37.4	2.6	2.1
60°-70°	33.2	2.3	1.9
70°-80°	19.8	1.4	1.1
80°-90°	5.7	0.4	0.3
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°	1154.7	79.4	66.4
0°-40°	1312.1	90.2	75.4
0°-60°	1396.2	96.0	80.2
0°-90°	1455.0	100.0	83.6
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°	1455.0	100.0	83.6

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11575	11575	11575	11575	11575	
5°	7336	7336	7336	7336	7336	581
15°	1053	1053	1053	1053	1053	358
25°	459	459	459	459	459	216
35°	282	282	282	282	282	157
45°	48	48	48	48	48	47
55°	42	42	42	42	42	37
65°	34	34	34	34	34	33
75°	18	18	18	18	18	20
85°	5	5	5	5	5	6
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°	11575	11575	11575	11575	11575	11575	11575	11575	11575
1°	11579	11579	11579	11579	11579	11579	11579	11579	11579
2°	11183	11183	11183	11183	11183	11183	11183	11183	11183
3°	10167	10167	10167	10167	10167	10167	10167	10167	10167
4°	8712	8712	8712	8712	8712	8712	8712	8712	8712
5°	7336	7336	7336	7336	7336	7336	7336	7336	7336
6°	6283	6283	6283	6283	6283	6283	6283	6283	6283
7°	5446	5446	5446	5446	5446	5446	5446	5446	5446
8°	4694	4694	4694	4694	4694	4694	4694	4694	4694
9°	4015	4015	4015	4015	4015	4015	4015	4015	4015
10°	3325	3325	3325	3325	3325	3325	3325	3325	3325
11°	2730	2730	2730	2730	2730	2730	2730	2730	2730
12°	2208	2208	2208	2208	2208	2208	2208	2208	2208
13°	1680	1680	1680	1680	1680	1680	1680	1680	1680
14°	1299	1299	1299	1299	1299	1299	1299	1299	1299
15°	1053	1053	1053	1053	1053	1053	1053	1053	1053
17.5°	729	729	729	729	729	729	729	729	729
20°	597	597	597	597	597	597	597	597	597
22.5°	509	509	509	509	509	509	509	509	509
25°	459	459	459	459	459	459	459	459	459
27.5°	427	427	427	427	427	427	427	427	427
30°	389	389	389	389	389	389	389	389	389
32.5°	350	350	350	350	350	350	350	350	350
35°	282	282	282	282	282	282	282	282	282
37.5°	150	150	150	150	150	150	150	150	150
40°	103	103	103	103	103	103	103	103	103
45°	48	48	48	48	48	48	48	48	48
50°	45	45	45	45	45	45	45	45	45
55°	42	42	42	42	42	42	42	42	42
60°	38	38	38	38	38	38	38	38	38
65°	34	34	34	34	34	34	34	34	34
70°	28	28	28	28	28	28	28	28	28
75°	18	18	18	18	18	18	18	18	18
80°	11	11	11	11	11	11	11	11	11
85°	5	5	5	5	5	5	5	5	5
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)