

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: E395883

Luminaire Tested: **H600-1603P**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395883
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: 100A19, 1710 LUMENS
Ballast/Driver: -

Summary

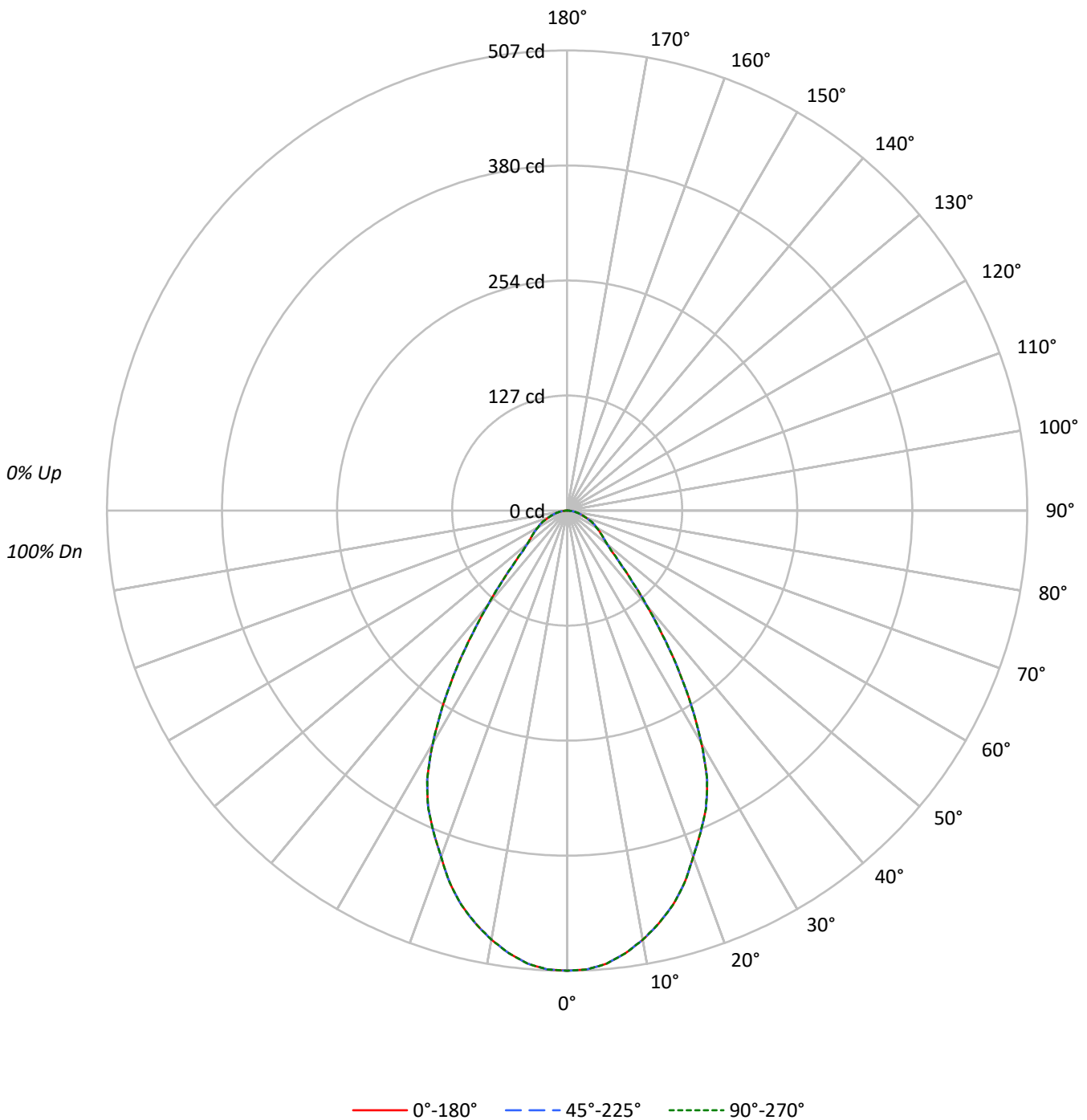
Lumens per Lamp: 1710 (1 lamp)
Luminaire Lumens: 628.2 lumens
Efficiency: 36.7%
Efficacy: 6.3 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.96
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 100
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	44	44	44	44	43	43	43	43	41	41	41	39	39	39	37	37	37	37
1	41	40	39	38	40	39	38	37	37	37	36	36	35	35	35	34	34	33
2	38	36	34	33	38	35	34	32	34	33	32	33	32	31	32	31	30	30
3	36	33	31	29	35	32	30	29	31	30	28	30	29	28	30	28	27	27
4	34	30	28	26	33	30	27	26	29	27	25	28	26	25	27	26	25	24
5	32	28	25	23	31	28	25	23	27	25	23	26	24	23	26	24	23	22
6	30	26	23	21	29	25	23	21	25	23	21	24	22	21	24	22	21	20
7	28	24	21	20	27	24	21	19	23	21	19	23	21	19	22	20	19	19
8	26	22	20	18	26	22	20	18	22	19	18	21	19	18	21	19	18	17
9	25	21	18	17	25	21	18	17	20	18	17	20	18	17	20	18	16	16
10	24	20	17	16	23	19	17	16	19	17	15	19	17	15	19	17	15	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°	47.1	7.5	2.8
10°-20°	125.7	20.0	7.4
20°-30°	164.2	26.1	9.6
30°-40°	132.4	21.1	7.7
40°-50°	67.4	10.7	3.9
50°-60°	41.6	6.6	2.4
60°-70°	29.2	4.6	1.7
70°-80°	15.8	2.5	0.9
80°-90°	4.8	0.8	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°	337.0	53.6	19.7
0°-40°	469.5	74.7	27.5
0°-60°	578.4	92.1	33.8
0°-90°	628.2	100.0	36.7
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°	628.2	100.0	36.7

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	507	507	507	507	507	
5°	501	501	501	501	501	47
15°	450	450	450	450	450	126
25°	362	362	362	362	362	164
35°	213	213	213	213	213	132
45°	83	83	83	83	83	67
55°	46	46	46	46	46	42
65°	30	30	30	30	30	29
75°	15	15	15	15	15	16
85°	4	4	4	4	4	5
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°	507	507	507	507	507	507	507	507	507
2.5°	506	506	506	506	506	506	506	506	506
5°	501	501	501	501	501	501	501	501	501
7.5°	492	492	492	492	492	492	492	492	492
10°	480	480	480	480	480	480	480	480	480
12.5°	466	466	466	466	466	466	466	466	466
15°	450	450	450	450	450	450	450	450	450
17.5°	430	430	430	430	430	430	430	430	430
20°	406	406	406	406	406	406	406	406	406
22.5°	384	384	384	384	384	384	384	384	384
25°	362	362	362	362	362	362	362	362	362
27.5°	334	334	334	334	334	334	334	334	334
30°	296	296	296	296	296	296	296	296	296
32.5°	255	255	255	255	255	255	255	255	255
35°	213	213	213	213	213	213	213	213	213
37.5°	172	172	172	172	172	172	172	172	172
40°	136	136	136	136	136	136	136	136	136
42.5°	106	106	106	106	106	106	106	106	106
45°	83	83	83	83	83	83	83	83	83
47.5°	67	67	67	67	67	67	67	67	67
50°	57	57	57	57	57	57	57	57	57
52.5°	51	51	51	51	51	51	51	51	51
55°	46	46	46	46	46	46	46	46	46
57.5°	42	42	42	42	42	42	42	42	42
60°	37	37	37	37	37	37	37	37	37
62.5°	34	34	34	34	34	34	34	34	34
65°	30	30	30	30	30	30	30	30	30
67.5°	25	25	25	25	25	25	25	25	25
70°	21	21	21	21	21	21	21	21	21
72.5°	18	18	18	18	18	18	18	18	18
75°	15	15	15	15	15	15	15	15	15
77.5°	12	12	12	12	12	12	12	12	12
80°	9	9	9	9	9	9	9	9	9
82.5°	7	7	7	7	7	7	7	7	7
85°	4	4	4	4	4	4	4	4	4
87.5°	2	2	2	2	2	2	2	2	2
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)