

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: E395866

Luminaire Tested: **H600-1671**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395866
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H600-1671
Description: HALO RECESSED INC. DROP OPAL, LOW S.S.
Light Source: 100A19, 1710 LUMENS
Ballast/Driver: -

Summary

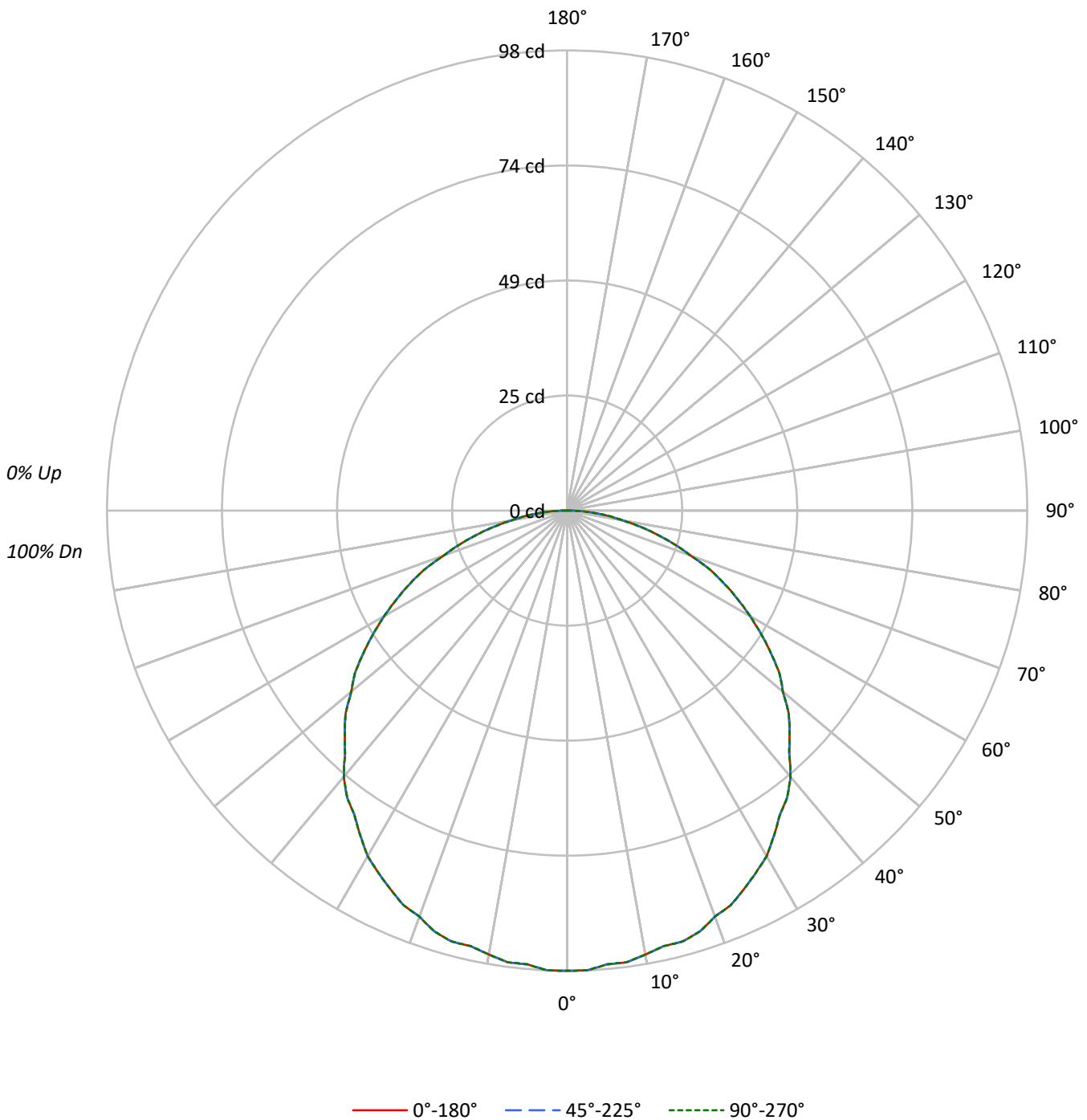
Lumens per Lamp: 1710 (1 lamp)
Luminaire Lumens: 290.4 lumens
Efficiency: 17.0%
Efficacy: 2.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.39
Luminous Opening: (L: 0 ' x W: -0.46 ' x H: 0 '
CIE Type: Direct

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	20	20	20	20	20	20	20	20	19	19	19	18	18	18	17	17	17	17
1	18	18	17	16	18	17	17	16	16	16	15	16	15	15	15	15	14	14
2	17	15	14	13	16	15	14	13	14	13	13	14	13	12	13	13	12	12
3	15	13	12	11	15	13	12	11	13	11	11	12	11	10	12	11	10	10
4	14	12	10	9	14	12	10	9	11	10	9	11	10	9	10	9	9	8
5	13	11	9	8	12	10	9	8	10	9	8	10	9	8	9	8	8	7
6	12	9	8	7	11	9	8	7	9	8	7	9	8	7	8	7	7	6
7	11	9	7	6	11	8	7	6	8	7	6	8	7	6	8	7	6	6
8	10	8	6	5	10	8	6	5	7	6	5	7	6	5	7	6	5	5
9	9	7	6	5	9	7	6	5	7	6	5	7	6	5	7	5	5	4
10	9	7	5	4	9	7	5	4	6	5	4	6	5	4	6	5	4	4

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°	9.3	3.2	0.5
10°-20°	26.7	9.2	1.6
20°-30°	41.0	14.1	2.4
30°-40°	49.7	17.1	2.9
40°-50°	51.7	17.8	3.0
50°-60°	47.3	16.3	2.8
60°-70°	36.5	12.6	2.1
70°-80°	21.1	7.3	1.2
80°-90°	6.7	2.3	0.4
90°-100°	0.3	0.1	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°	77.0	26.5	4.5
0°-40°	126.8	43.7	7.4
0°-60°	225.8	77.8	13.2
0°-90°	290.1	99.9	17.0
90°-120°	0.3	0.1	0.0
90°-150°	0.3	0.1	0.0
90°-180°	0.0	0.0	0.0
0°-180°	290.4	100.0	17.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	98	98	98	98	98	
5°	97	97	97	97	97	9
15°	95	95	95	95	95	27
25°	89	89	89	89	89	41
35°	79	79	79	79	79	50
45°	67	67	67	67	67	52
55°	53	53	53	53	53	47
65°	37	37	37	37	37	36
75°	20	20	20	20	20	21
85°	6	6	6	6	6	6
90°	1	1	1	1	1	1
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	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°	98	98	98	98	98	98	98	98	98
2.5°	98	98	98	98	98	98	98	98	98
5°	97	97	97	97	97	97	97	97	97
7.5°	97	97	97	97	97	97	97	97	97
10°	96	96	96	96	96	96	96	96	96
12.5°	95	95	95	95	95	95	95	95	95
15°	95	95	95	95	95	95	95	95	95
17.5°	94	94	94	94	94	94	94	94	94
20°	92	92	92	92	92	92	92	92	92
22.5°	91	91	91	91	91	91	91	91	91
25°	89	89	89	89	89	89	89	89	89
27.5°	87	87	87	87	87	87	87	87	87
30°	85	85	85	85	85	85	85	85	85
32.5°	82	82	82	82	82	82	82	82	82
35°	79	79	79	79	79	79	79	79	79
37.5°	77	77	77	77	77	77	77	77	77
40°	74	74	74	74	74	74	74	74	74
42.5°	70	70	70	70	70	70	70	70	70
45°	67	67	67	67	67	67	67	67	67
47.5°	64	64	64	64	64	64	64	64	64
50°	60	60	60	60	60	60	60	60	60
52.5°	57	57	57	57	57	57	57	57	57
55°	53	53	53	53	53	53	53	53	53
57.5°	49	49	49	49	49	49	49	49	49
60°	45	45	45	45	45	45	45	45	45
62.5°	41	41	41	41	41	41	41	41	41
65°	37	37	37	37	37	37	37	37	37
67.5°	33	33	33	33	33	33	33	33	33
70°	28	28	28	28	28	28	28	28	28
72.5°	24	24	24	24	24	24	24	24	24
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°	1	1	1	1	1	1	1	1	1
95°	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
135°	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0

(END OF REPORT)