

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: H37018

Luminaire Tested: **H600T-1625P**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H37018
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H600T-1625P
Description: HALO RECESSED DOWNLIGHT
BRIGHT DIPPED & ANODIZED REFLECTOR
SPECULAR WALLWASH SCOOP - HIGH SOCKET SETTING
Light Source: 100A19 100 WATTS 1750 LUMENS
A19 INSIDE FROSTED
Ballast/Driver: -

Summary

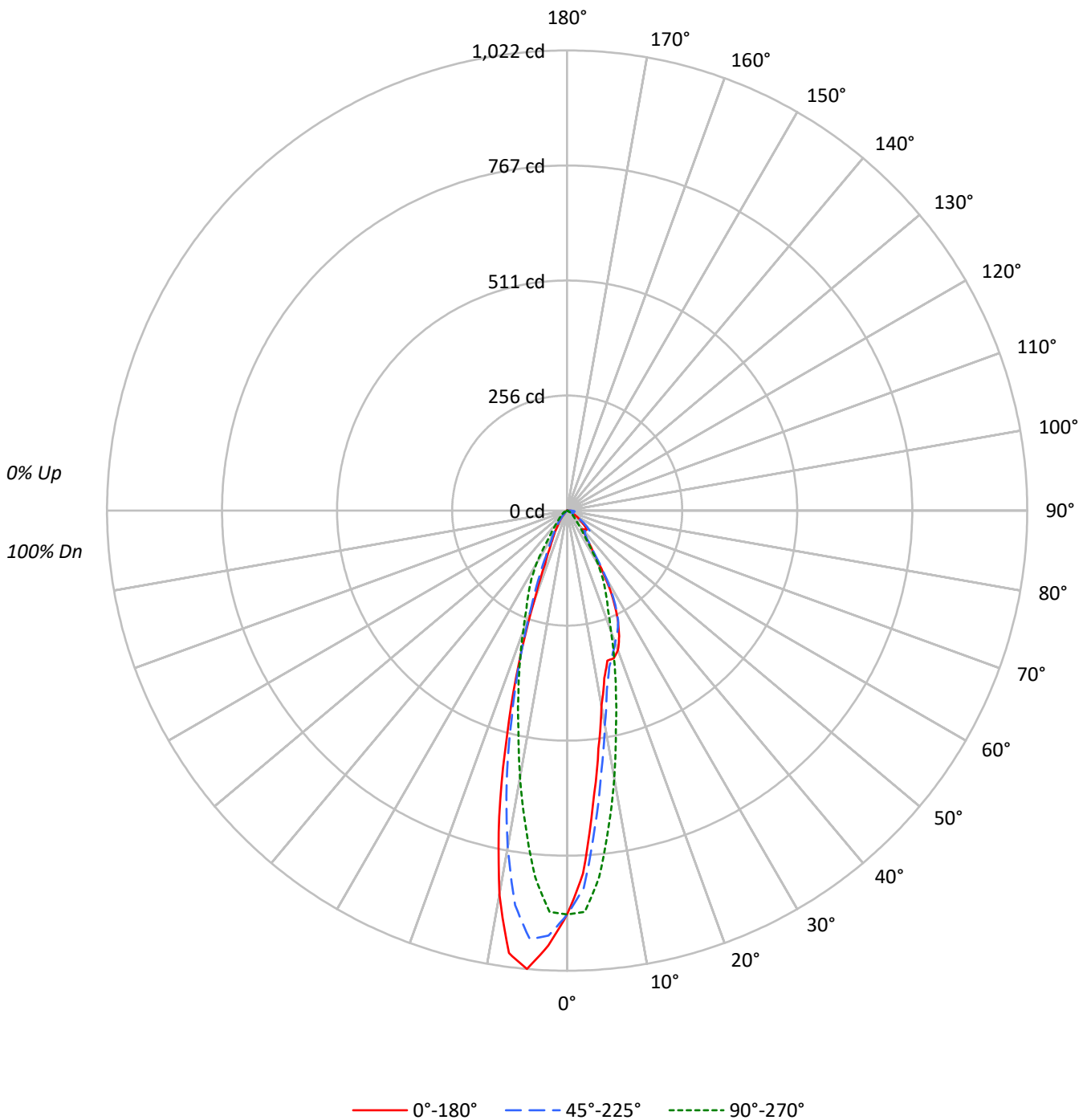
Lumens per Lamp: 1750 (1 lamp)
Luminaire Lumens: 378.0 lumens
Efficiency: 21.6%
Efficacy: 3.8 lumens/watt
Spacing Criteria (0/90/45): 0.49 / 0.46 / 0.52
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

Input Watts (W): 100
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	26	26	26	26	25	25	25	25	24	24	24	23	23	23	22	22	22	22
1	24	24	23	23	24	23	23	22	22	22	22	22	21	21	21	21	21	20
2	23	22	21	20	23	22	21	20	21	20	20	20	20	19	20	19	19	18
3	22	21	19	19	22	20	19	18	20	19	18	19	18	18	19	18	18	17
4	21	19	18	17	21	19	18	17	19	18	17	18	17	17	18	17	16	16
5	20	18	17	16	20	18	17	16	18	17	16	17	16	16	17	16	16	15
6	19	17	16	15	19	17	16	15	17	16	15	16	15	15	16	15	15	14
7	18	16	15	14	18	16	15	14	16	15	14	16	15	14	15	15	14	14
8	17	16	14	13	17	15	14	13	15	14	13	15	14	13	15	14	13	13
9	17	15	14	13	17	15	14	13	15	13	13	14	13	13	14	13	13	12
10	16	14	13	12	16	14	13	12	14	13	12	14	13	12	14	13	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
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°	72.5	19.2	4.1
10°-20°	117.6	31.1	6.7
20°-30°	86.6	22.9	4.9
30°-40°	40.5	10.7	2.3
40°-50°	26.8	7.1	1.5
50°-60°	16.6	4.4	1.0
60°-70°	5.8	1.5	0.3
70°-80°	5.5	1.5	0.3
80°-90°	5.7	1.5	0.3
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°	276.7	73.2	15.8
0°-40°	317.2	83.9	18.1
0°-60°	360.6	95.4	20.6
0°-90°	377.6	99.9	21.6
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°	378.0	100.0	21.6

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	897	897	897	897	897	
5°	655	707	817	955	1022	56
15°	345	360	418	476	515	102
25°	266	268	203	112	88	118
35°	75	76	62	36	31	54
45°	61	72	24	7	2	44
55°	33	38	12	1	1	30
65°	11	10	3	0	0	12
75°	10	13	1	0	0	11
85°	9	16	0	0	0	8
90°	5	5	0	0	0	2
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°	897	897	897	897	897	897	897	897	897
2.5°	807	821	839	863	892	921	945	961	967
5°	655	672	707	754	817	885	955	1005	1022
7.5°	533	549	582	637	707	792	884	964	991
10°	440	454	482	535	602	671	759	844	866
12.5°	381	389	407	450	500	545	620	675	696
15°	345	354	360	384	418	434	476	507	515
17.5°	344	340	335	334	347	333	350	361	358
20°	330	329	312	292	285	249	241	226	212
22.5°	302	303	292	265	237	184	167	143	128
25°	266	271	268	245	203	133	112	98	88
27.5°	221	228	227	217	172	96	78	74	67
30°	162	169	174	174	136	74	62	59	53
32.5°	106	105	111	118	93	57	47	45	39
35°	75	76	76	83	62	42	36	34	31
37.5°	60	60	65	76	47	29	26	24	22
40°	54	54	59	75	37	21	18	15	14
42.5°	58	60	64	74	29	14	12	8	7
45°	61	65	72	73	24	10	7	4	2
47.5°	56	60	70	71	20	7	5	2	1
50°	48	51	60	62	17	5	3	1	1
52.5°	40	43	49	52	14	4	2	1	1
55°	33	34	38	40	12	3	1	1	1
57.5°	26	27	29	31	9	2	1	1	1
60°	20	20	21	22	7	1	1	1	1
62.5°	13	13	13	13	5	1	1	0	0
65°	11	11	10	9	3	1	0	0	0
67.5°	10	10	10	8	2	1	0	0	0
70°	10	10	10	9	2	0	0	0	0
72.5°	10	11	11	10	1	0	0	0	1
75°	10	11	13	11	1	0	0	0	0
77.5°	11	12	15	12	1	0	0	0	0
80°	11	12	16	13	1	0	0	0	0
82.5°	10	12	17	14	1	0	0	0	0
85°	9	12	16	14	0	0	0	0	0
87.5°	7	9	13	13	0	0	0	0	0
90°	5	5	5	6	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0
110°	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°
112.5°	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0

(END OF REPORT)