

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: H37022

Luminaire Tested: **H600T-1625P**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H37022
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 - LOW SOCKET SETTING
Light Source: 100A19 100 WATTS 1750 LUMENS
A19 INSIDE FROSTED
Ballast/Driver: -

Summary

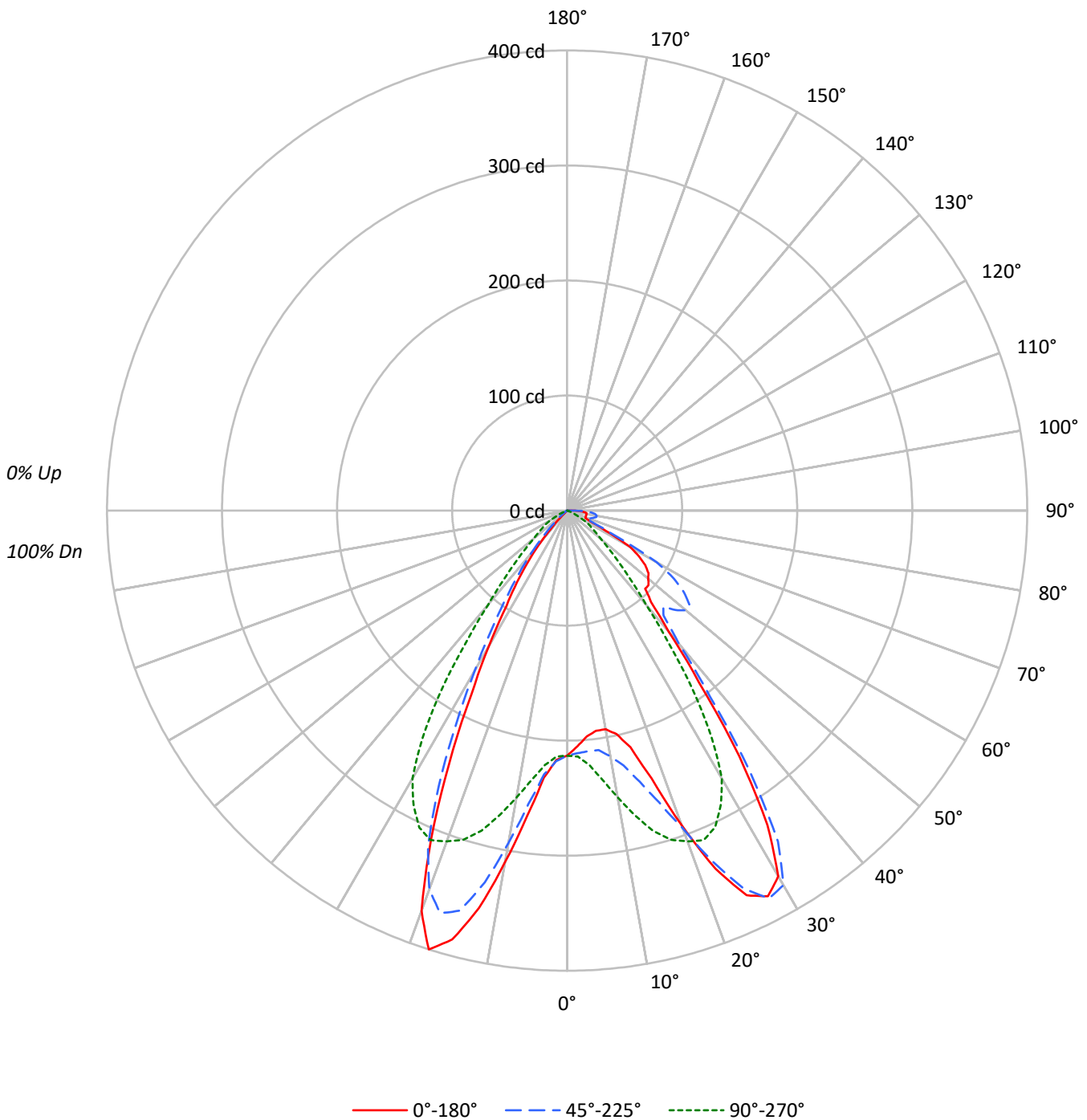
Lumens per Lamp: 1750 (1 lamp)
Luminaire Lumens: 494.7 lumens
Efficiency: 28.3%
Efficacy: 4.9 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.39 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

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



TEST NUMBER: H37022
CATALOG NUMBER: H600T-1625P

Luminous Intensity Polar Plot





TEST NUMBER: H37022
 CATALOG NUMBER: H600T-1625P

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	34	34	34	34	33	33	33	33	31	31	31	30	30	30	29	29	29	28
1	31	30	29	29	31	30	29	28	29	28	27	28	27	26	27	26	26	25
2	29	28	26	25	29	27	26	24	26	25	24	25	24	23	24	24	23	22
3	27	25	23	22	27	25	23	22	24	22	21	23	22	21	22	21	20	20
4	26	23	21	19	25	22	21	19	22	20	19	21	20	19	21	19	18	18
5	24	21	19	17	23	21	19	17	20	18	17	20	18	17	19	18	17	16
6	22	19	17	16	22	19	17	16	18	17	15	18	16	15	18	16	15	15
7	21	18	16	14	21	18	16	14	17	15	14	17	15	14	16	15	14	13
8	20	16	14	13	19	16	14	13	16	14	13	16	14	13	15	14	13	12
9	19	15	13	12	18	15	13	12	15	13	12	15	13	12	14	13	12	11
10	17	14	12	11	17	14	12	11	14	12	11	14	12	11	13	12	11	10

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°			



TEST NUMBER: H37022
 CATALOG NUMBER: H600T-1625P

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	22.0	4.5	1.3
10°-20°	84.0	17.0	4.8
20°-30°	138.8	28.1	7.9
30°-40°	112.4	22.7	6.4
40°-50°	55.6	11.2	3.2
50°-60°	46.8	9.5	2.7
60°-70°	16.4	3.3	0.9
70°-80°	10.1	2.0	0.6
80°-90°	8.1	1.6	0.5
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°	244.9	49.5	14.0
0°-40°	357.3	72.2	20.4
0°-60°	459.8	92.9	26.3
0°-90°	494.4	99.9	28.3
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°	494.7	100.0	28.3

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	213	213	213	213	213	
5°	197	210	222	230	233	19
15°	213	244	288	360	386	65
25°	369	362	304	264	243	165
35°	261	277	191	91	76	158
45°	96	118	63	20	4	80
55°	83	124	26	2	1	72
65°	22	24	6	1	1	29
75°	17	24	1	1	0	18
85°	15	22	0	0	0	13
90°	6	5	0	0	0	3
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



TEST NUMBER: H37022
 CATALOG NUMBER: H600T-1625P

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	213	213	213	213	213	213	213	213	213
2.5°	205	206	211	213	214	216	218	215	217
5°	197	200	210	217	222	228	230	233	233
7.5°	193	197	210	226	236	244	257	264	268
10°	193	199	217	237	253	268	293	307	310
12.5°	199	205	227	254	271	289	331	353	354
15°	213	220	244	271	288	305	360	386	386
17.5°	244	245	266	292	300	312	367	398	400
20°	291	290	294	311	306	302	350	376	370
22.5°	337	334	330	329	310	282	316	324	309
25°	369	369	362	345	304	253	264	259	243
27.5°	378	382	380	355	289	214	208	197	180
30°	367	373	376	351	269	182	160	148	136
32.5°	324	334	341	325	234	146	121	112	98
35°	261	268	277	271	191	114	91	85	76
37.5°	188	198	204	206	144	86	68	62	55
40°	137	143	151	159	107	64	49	41	35
42.5°	108	113	124	141	82	48	32	23	17
45°	96	102	118	137	63	33	20	9	4
47.5°	96	106	128	139	49	24	11	3	3
50°	92	107	135	141	38	16	6	2	2
52.5°	89	102	134	139	31	11	3	2	2
55°	83	94	124	132	26	7	2	1	1
57.5°	74	84	110	118	22	5	1	1	1
60°	63	71	90	100	17	3	1	1	1
62.5°	38	41	46	56	11	2	1	1	1
65°	22	22	24	27	6	1	1	1	1
67.5°	17	18	18	19	4	1	1	1	1
70°	17	18	19	18	2	1	1	1	1
72.5°	17	19	22	20	2	1	1	1	1
75°	17	20	24	22	1	1	1	0	0
77.5°	17	20	26	23	1	0	1	0	0
80°	17	20	26	23	1	0	0	0	0
82.5°	17	20	25	22	1	0	0	0	0
85°	15	18	22	19	0	0	0	0	0
87.5°	11	13	16	13	0	0	0	0	0
90°	6	7	5	4	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



TEST NUMBER: H37022
 CATALOG NUMBER: H600T-1625P

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)