

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: H37023

Luminaire Tested: **H600T-1625P**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H37023
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: 150A21 150 WATTS 2850 LUMENS
A21 INSIDE FROSTED
Ballast/Driver: -

Summary

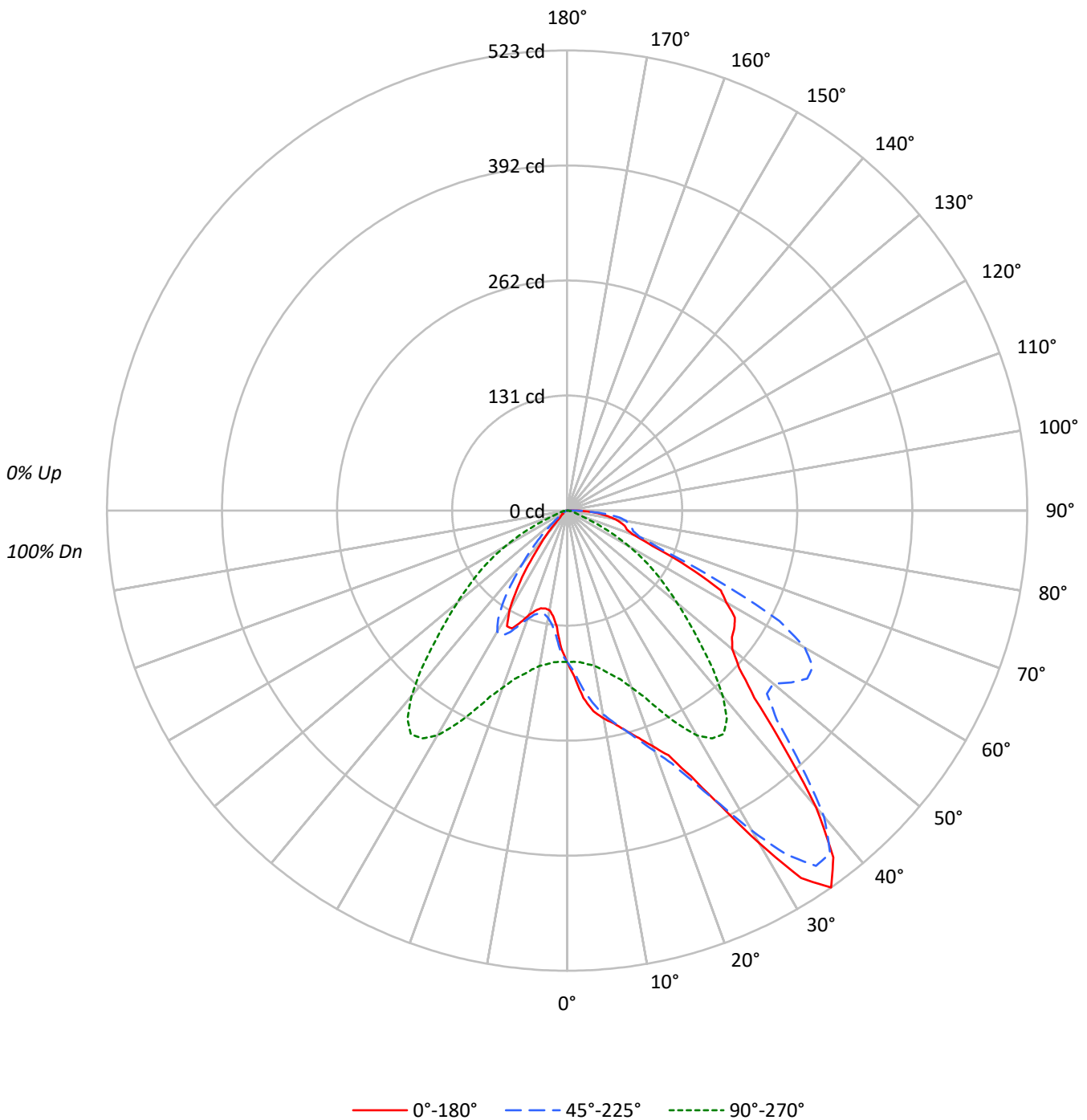
Lumens per Lamp: 2850 (1 lamp)
Luminaire Lumens: 796.4 lumens
Efficiency: 27.9%
Efficacy: 5.3 lumens/watt
Spacing Criteria (0/90/45): 1.79 / 1.92 / 1.72
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

Input Watts (W): 150
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	33	33	33	33	32	32	32	32	31	31	31	30	30	30	28	28	28	28
1	30	29	28	27	30	28	27	26	27	26	26	26	25	25	25	25	24	23
2	28	25	24	22	27	25	23	22	24	22	21	23	22	21	22	21	20	20
3	25	22	20	18	25	22	20	18	21	19	18	20	19	17	20	18	17	17
4	23	20	17	15	22	19	17	15	19	17	15	18	16	15	17	16	15	14
5	21	18	15	13	21	17	15	13	17	15	13	16	14	13	16	14	13	12
6	19	16	13	11	19	15	13	11	15	13	11	14	13	11	14	12	11	10
7	18	14	12	10	18	14	12	10	14	11	10	13	11	10	13	11	10	9
8	17	13	10	9	16	13	10	9	12	10	9	12	10	9	12	10	9	8
9	16	12	9	8	15	12	9	8	11	9	8	11	9	8	11	9	8	7
10	14	11	8	7	14	11	8	7	10	8	7	10	8	7	10	8	7	6

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°	16.7	2.1	0.6
10°-20°	54.8	6.9	1.9
20°-30°	115.3	14.5	4.0
30°-40°	184.5	23.2	6.5
40°-50°	150.8	18.9	5.3
50°-60°	133.1	16.7	4.7
60°-70°	85.6	10.8	3.0
70°-80°	35.4	4.4	1.2
80°-90°	19.5	2.4	0.7
90°-100°	0.6	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°	186.8	23.4	6.6
0°-40°	371.3	46.6	13.0
0°-60°	655.3	82.3	23.0
0°-90°	795.8	99.9	27.9
90°-120°	0.6	0.1	0.0
90°-150°	0.6	0.1	0.0
90°-180°	1.0	0.1	0.0
0°-180°	796.4	100.0	27.9

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	172	172	172	172	172	
5°	214	203	173	143	133	21
15°	259	259	193	121	115	74
25°	333	340	251	152	148	161
35°	523	493	310	126	81	307
45°	301	337	214	44	12	244
55°	232	333	122	8	6	206
65°	152	190	41	4	4	147
75°	68	76	9	2	2	71
85°	35	44	3	1	2	33
90°	11	8	1	1	0	6
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°	172	172	172	172	172	172	172	172	172
2.5°	189	187	183	178	172	167	161	158	156
5°	214	211	203	190	173	157	143	136	133
7.5°	230	227	220	203	176	148	131	123	121
10°	240	239	235	218	179	141	124	117	115
12.5°	248	249	247	234	185	137	120	115	114
15°	259	259	259	249	193	136	121	116	115
17.5°	271	272	274	266	201	137	124	121	119
20°	285	285	291	286	214	141	131	128	126
22.5°	301	304	311	309	229	149	140	137	137
25°	333	333	340	338	251	159	152	148	148
27.5°	378	373	376	370	274	172	160	151	148
30°	436	425	420	404	295	181	159	139	131
32.5°	495	474	463	435	307	184	146	117	107
35°	523	500	493	455	310	178	126	91	81
37.5°	497	484	491	450	298	165	102	68	56
40°	440	430	454	421	275	146	79	48	39
42.5°	364	359	394	377	246	124	60	34	23
45°	301	296	337	332	214	103	44	19	12
47.5°	265	260	308	310	187	81	29	10	10
50°	245	248	306	310	163	62	19	9	9
52.5°	236	251	321	320	141	46	12	7	7
55°	232	255	333	333	122	32	8	6	6
57.5°	226	249	331	336	102	22	6	5	5
60°	209	231	312	322	81	14	5	5	5
62.5°	197	209	272	286	62	9	5	4	4
65°	152	160	190	213	41	5	4	4	4
67.5°	105	109	117	127	24	4	3	3	3
70°	79	84	88	85	14	3	3	3	3
72.5°	71	75	79	72	11	3	3	3	3
75°	68	71	76	68	9	2	2	2	2
77.5°	62	68	72	65	7	2	2	2	2
80°	55	61	68	61	5	2	2	2	2
82.5°	45	52	60	55	4	2	2	2	2
85°	35	41	44	40	3	1	1	2	2
87.5°	24	29	23	21	1	1	1	1	1
90°	11	13	8	6	1	1	1	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)