

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: H37027

Luminaire Tested: **H600T-1625P**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H37027
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: 100R40 100 WATTS 1190 LUMENS
R40 FLOOD
Ballast/Driver: -

Summary

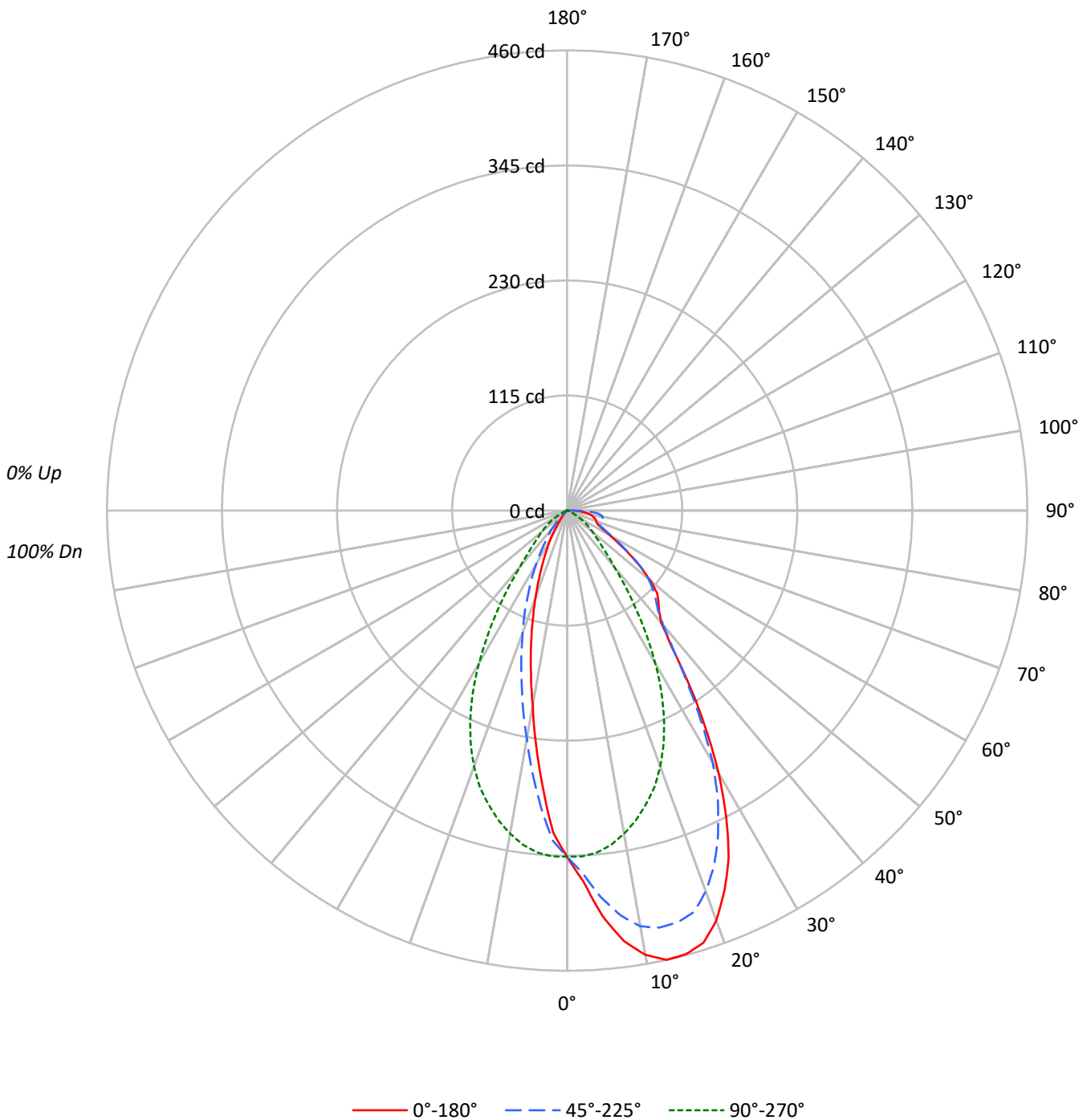
Lumens per Lamp: 1190 (1 lamp)
Luminaire Lumens: 421.2 lumens
Efficiency: 35.4%
Efficacy: 4.2 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.92 / 0.92
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

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	42	42	42	42	41	41	41	41	39	39	39	38	38	38	36	36	36	35
1	39	38	37	35	38	37	36	35	36	35	34	34	33	33	33	32	32	31
2	37	34	32	31	36	34	32	30	32	31	30	31	30	29	30	29	28	28
3	34	31	29	27	33	31	29	27	30	28	26	29	27	26	28	27	26	25
4	32	29	26	24	31	28	26	24	27	25	24	27	25	23	26	24	23	22
5	30	26	24	22	29	26	24	22	25	23	22	25	23	21	24	22	21	20
6	28	24	22	20	28	24	22	20	23	21	20	23	21	20	22	21	19	19
7	27	23	20	18	26	22	20	18	22	20	18	21	19	18	21	19	18	17
8	25	21	19	17	25	21	18	17	20	18	17	20	18	17	20	18	17	16
9	24	20	17	16	23	20	17	16	19	17	16	19	17	15	18	17	15	15
10	22	19	16	15	22	18	16	15	18	16	14	18	16	14	17	16	14	14

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°	32.2	7.6	2.7
10°-20°	84.2	20.0	7.1
20°-30°	102.1	24.2	8.6
30°-40°	76.8	18.2	6.5
40°-50°	50.6	12.0	4.2
50°-60°	33.1	7.8	2.8
60°-70°	17.0	4.0	1.4
70°-80°	14.3	3.4	1.2
80°-90°	10.5	2.5	0.9
90°-100°	0.5	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°	218.5	51.9	18.4
0°-40°	295.4	70.1	24.8
0°-60°	379.0	90.0	31.8
0°-90°	420.8	99.9	35.4
90°-120°	0.5	0.1	0.0
90°-150°	0.5	0.1	0.0
90°-180°	0.0	0.0	0.0
0°-180°	421.2	100.0	35.4

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	346	346	346	346	346	
5°	407	388	343	298	278	40
15°	459	426	304	176	139	128
25°	382	357	229	92	57	173
35°	213	208	120	38	16	134
45°	129	125	47	12	4	99
55°	76	78	23	2	1	68
65°	35	37	6	0	0	36
75°	28	35	1	0	0	29
85°	17	30	0	1	0	15
90°	6	7	1	1	1	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	346	346	346	346	346	346	346	346	346
2.5°	371	368	363	356	346	337	330	323	322
5°	407	402	388	369	343	318	298	283	278
7.5°	434	428	408	378	337	297	265	243	237
10°	451	444	422	382	328	274	232	206	198
12.5°	460	452	427	383	317	250	203	176	167
15°	459	452	426	380	304	226	176	148	139
17.5°	453	447	421	373	290	203	152	123	114
20°	436	430	405	358	272	180	130	102	92
22.5°	411	408	384	339	252	159	111	82	73
25°	382	378	357	316	229	138	92	66	57
27.5°	344	344	326	290	204	118	77	51	44
30°	303	303	291	259	176	99	62	39	34
32.5°	257	260	249	224	148	82	49	30	24
35°	213	215	208	188	120	67	38	22	16
37.5°	171	177	173	157	95	54	30	15	10
40°	146	149	149	134	73	43	23	9	6
42.5°	136	137	134	119	58	34	16	6	6
45°	129	130	125	108	47	27	12	5	4
47.5°	122	123	116	98	39	21	8	3	3
50°	108	111	106	88	33	16	5	2	2
52.5°	92	94	93	76	28	12	3	2	2
55°	76	78	78	64	23	9	2	1	1
57.5°	61	63	64	53	18	6	1	1	1
60°	49	51	52	43	13	3	1	1	0
62.5°	40	42	43	36	9	2	0	0	0
65°	35	36	37	32	6	1	0	0	0
67.5°	32	34	35	28	4	0	0	0	0
70°	31	33	34	27	2	0	0	0	0
72.5°	30	32	35	27	2	0	0	0	0
75°	28	31	35	27	1	0	0	0	0
77.5°	26	30	36	27	1	0	0	0	0
80°	24	28	36	26	0	0	0	0	0
82.5°	21	26	34	25	0	1	0	0	0
85°	17	22	30	22	0	1	1	0	0
87.5°	11	16	22	16	1	1	1	1	1
90°	6	7	7	5	1	1	1	1	1
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)