

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: E395835

Luminaire Tested: **H600-1625**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395835
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H600-1625
Description: HALO RECESSED INC. WALL WASH, HIGH S.S.
Light Source: 150R40FL, 1900 LUMENS
Ballast/Driver: -

Summary

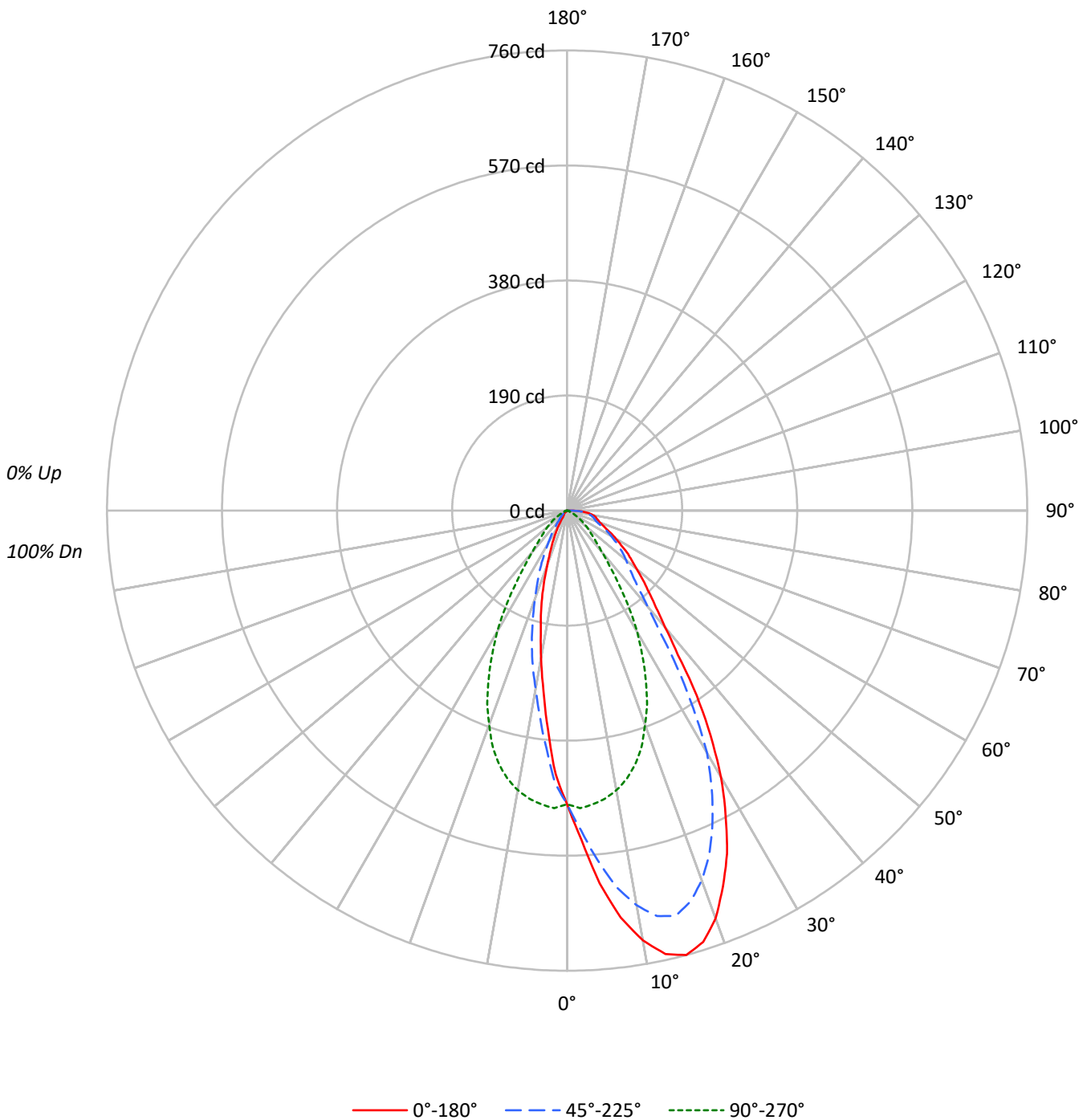
Lumens per Lamp: 1900 (1 lamp)
Luminaire Lumens: 609.7 lumens
Efficiency: 32.1%
Efficacy: 4.1 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.9 / 0.93
Luminous Opening: (L: 0 ' x W: -0.37 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 150
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	38	38	38	38	37	37	37	37	36	36	36		34	34	34		33	33	33	32
1	36	34	33	32	35	34	33	32	32	32	31		31	30	30		30	29	29	28
2	33	31	29	28	32	31	29	28	29	28	27		28	27	26		28	27	26	25
3	31	28	26	25	30	28	26	24	27	25	24		26	25	24		25	24	23	23
4	29	26	24	22	28	26	24	22	25	23	22		24	23	21		24	22	21	21
5	27	24	22	20	27	24	21	20	23	21	20		22	21	19		22	20	19	19
6	26	22	20	18	25	22	20	18	21	19	18		21	19	18		20	19	18	17
7	24	21	18	17	24	20	18	17	20	18	17		20	18	16		19	18	16	16
8	23	19	17	15	22	19	17	15	19	17	15		18	17	15		18	16	15	15
9	22	18	16	14	21	18	16	14	18	16	14		17	15	14		17	15	14	14
10	21	17	15	13	20	17	15	13	16	15	13		16	14	13		16	14	13	13

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°	46.4	7.6	2.4
10°-20°	126.3	20.7	6.6
20°-30°	152.1	24.9	8.0
30°-40°	110.9	18.2	5.8
40°-50°	65.5	10.7	3.4
50°-60°	45.6	7.5	2.4
60°-70°	29.6	4.9	1.6
70°-80°	20.9	3.4	1.1
80°-90°	11.8	1.9	0.6
90°-100°	0.7	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°	324.8	53.3	17.1
0°-40°	435.7	71.5	22.9
0°-60°	546.8	89.7	28.8
0°-90°	609.0	99.9	32.1
90°-120°	0.7	0.1	0.0
90°-150°	0.7	0.1	0.0
90°-180°	1.0	0.2	0.1
0°-180°	609.7	100.0	32.1

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	485	485	485	485	485	
5°	618	580	487	394	363	62
15°	760	693	434	225	165	211
25°	625	568	307	105	54	284
35°	373	317	149	38	9	231
45°	191	154	59	14	6	150
55°	121	105	29	4	3	108
65°	71	65	8	2	2	72
75°	50	45	3	1	1	53
85°	29	26	2	0	0	27
90°	9	4	1	0	0	6
95°	0	0	0	0	0	2
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°	5°	15°	22.5°	25°	35°	45°	55°	65°	67.5°	75°
0°	485	485	485	485	485	485	485	485	485	485	485
2.5°	544	550	549	543	543	542	529	521	513	513	506
5°	618	624	619	609	606	597	580	562	541	539	523
7.5°	678	683	680	666	666	650	628	600	567	558	535
10°	721	733	723	714	710	690	662	628	586	576	543
12.5°	750	763	753	743	738	716	686	646	597	586	544
15°	760	772	761	752	746	724	693	651	600	587	540
17.5°	747	759	748	738	732	710	677	636	586	572	522
20°	717	726	717	707	702	681	650	611	561	546	499
22.5°	672	685	677	669	662	641	614	579	529	515	468
25°	625	637	630	620	621	597	568	535	491	477	430
27.5°	567	580	578	565	563	550	517	484	443	429	386
30°	508	515	513	505	501	485	462	427	386	376	340
32.5°	441	447	441	436	427	413	388	359	316	316	281
35°	373	378	372	358	357	340	317	286	254	250	218
37.5°	300	310	300	290	291	278	249	226	197	190	165
40°	252	257	250	245	240	226	207	179	156	148	129
42.5°	217	221	215	208	206	191	174	154	128	123	104
45°	191	194	189	184	182	170	154	134	112	106	88
47.5°	170	172	170	166	164	154	138	120	98	93	77
50°	150	153	152	149	147	140	127	109	89	83	69
52.5°	134	137	135	133	132	126	116	100	80	76	61
55°	121	123	121	118	118	114	105	91	73	69	54
57.5°	105	109	108	106	105	102	94	82	66	62	48
60°	93	95	94	94	93	91	84	74	59	56	43
62.5°	82	84	83	82	81	79	75	66	52	50	38
65°	71	73	72	71	71	68	65	57	47	45	33
67.5°	64	65	64	63	63	60	56	50	41	39	28
70°	57	59	58	57	57	54	51	46	37	34	25
72.5°	54	54	54	53	51	50	48	42	34	31	23
75°	50	51	50	49	49	48	45	39	31	29	21
77.5°	48	48	48	47	47	45	42	37	29	27	19
80°	43	44	44	42	43	41	38	33	26	24	17
82.5°	38	38	37	37	37	35	33	28	23	21	15
85°	29	31	31	30	29	28	26	23	17	16	11
87.5°	21	21	21	21	20	19	18	16	12	11	7
90°	9	8	8	8	8	7	4	5	4	3	3
95°	0	0	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	22.5°	25°	35°	45°	55°	65°	67.5°	75°
135°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	85°	90°	112.5°	135°	157.5°	180°
0°	485	485	485	485	485	485
2.5°	497	492	463	451	436	436
5°	499	487	435	394	372	363
7.5°	497	480	402	344	311	299
10°	492	469	366	299	264	248
12.5°	483	454	332	262	216	200
15°	468	434	299	225	181	165
17.5°	446	409	271	188	143	129
20°	418	376	234	155	110	96
22.5°	386	345	204	128	85	71
25°	349	307	173	105	65	54
27.5°	310	268	145	82	48	39
30°	267	231	121	63	33	24
32.5°	218	190	100	49	22	14
35°	170	149	79	38	14	9
37.5°	132	115	63	28	9	9
40°	101	89	51	21	10	10
42.5°	79	72	44	17	12	12
45°	67	59	36	14	9	6
47.5°	57	50	29	11	5	4
50°	50	43	23	8	4	4
52.5°	42	35	17	6	3	4
55°	36	29	12	4	3	3
57.5°	30	23	9	3	3	3
60°	24	17	6	3	2	2
62.5°	19	12	4	2	2	2
65°	15	8	3	2	2	2
67.5°	11	6	2	2	2	2
70°	10	5	2	2	1	2
72.5°	9	4	2	1	1	1
75°	8	3	1	1	1	1
77.5°	7	3	1	1	1	1
80°	6	3	1	1	1	1
82.5°	5	2	1	1	1	1
85°	4	2	1	0	0	0
87.5°	2	1	0	0	0	0
90°	1	1	0	0	0	0
95°	0	0	0	0	0	0
100°	0	0	0	0	0	0
105°	0	0	0	0	0	0
110°	0	0	0	0	0	0
115°	0	0	0	0	0	0
120°	0	0	0	0	0	0
125°	0	0	0	0	0	0
130°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	85°	90°	112.5°	135°	157.5°	180°
135°	0	0	0	0	0	0
140°	0	0	0	0	0	0
145°	0	0	0	0	0	0
150°	0	0	0	0	0	0
155°	0	0	0	0	0	0
160°	0	0	0	0	0	0
165°	0	0	0	0	0	0
170°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

(END OF REPORT)