

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: E395865

Luminaire Tested: **H600-1625**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395865
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: 100R40FL, 1160 LUMENS
Ballast/Driver: -

Summary

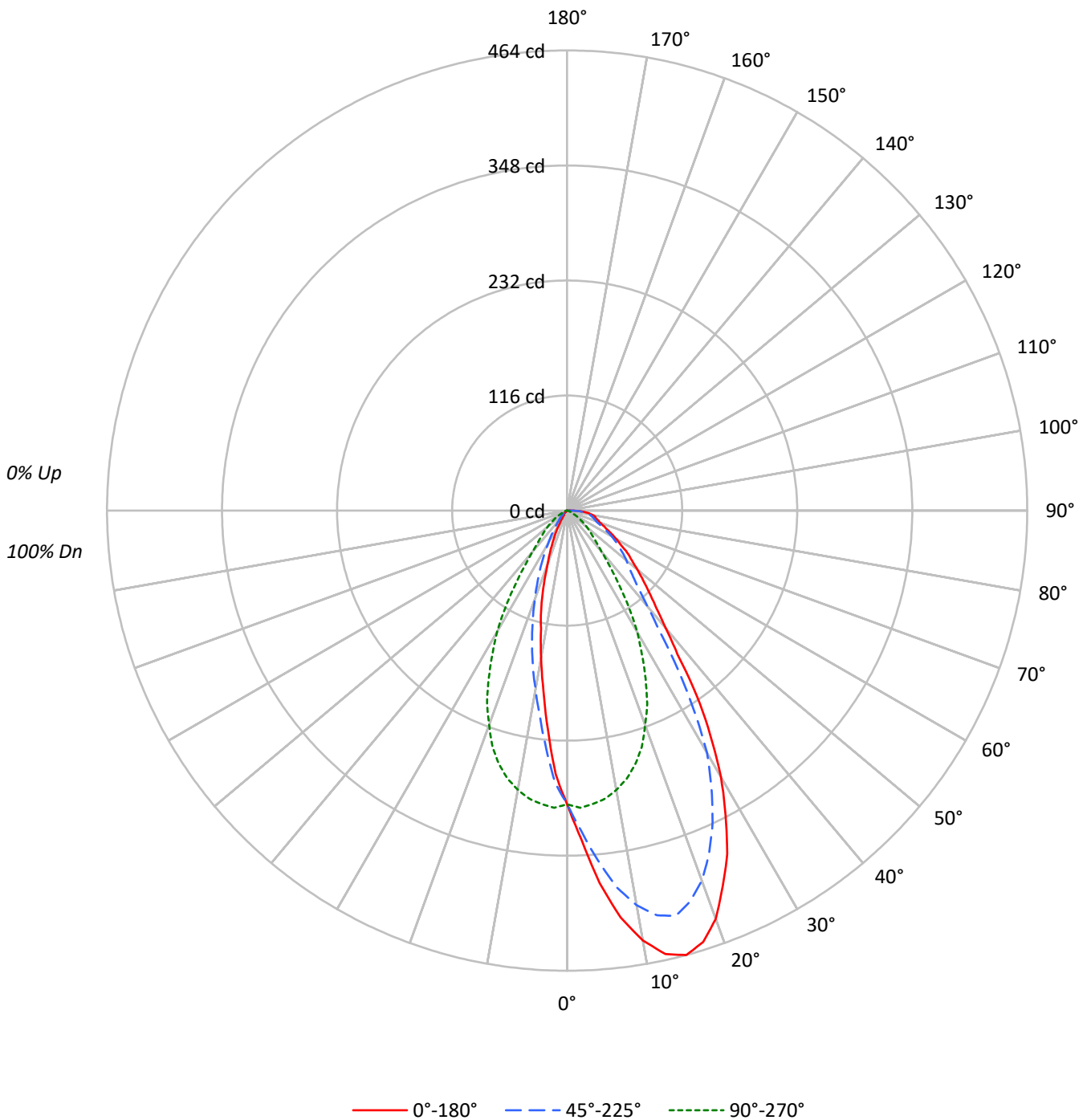
Lumens per Lamp: 1160 (1 lamp)
Luminaire Lumens: 372.2 lumens
Efficiency: 32.1%
Efficacy: 3.7 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.9 / 0.93
Luminous Opening: (L: 0 ' x W: -0.37 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 100
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°	28.3	7.6	2.4
10°-20°	77.1	20.7	6.6
20°-30°	92.8	24.9	8.0
30°-40°	67.6	18.2	5.8
40°-50°	40.0	10.7	3.4
50°-60°	27.8	7.5	2.4
60°-70°	18.0	4.8	1.6
70°-80°	12.9	3.5	1.1
80°-90°	7.1	1.9	0.6
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°	198.2	53.3	17.1
0°-40°	265.9	71.4	22.9
0°-60°	333.7	89.6	28.8
0°-90°	371.8	99.9	32.0
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°	372.2	100.0	32.1

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	296	296	296	296	296	
5°	377	354	297	241	222	38
15°	464	423	265	137	101	129
25°	382	347	187	64	33	173
35°	228	193	91	23	6	141
45°	117	94	36	9	4	92
55°	74	64	17	3	2	66
65°	44	40	5	1	1	44
75°	30	27	2	1	1	32
85°	18	16	1	0	0	16
90°	6	3	0	0	0	4
95°	0	0	0	0	0	1
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°	296	296	296	296	296	296	296	296	296	296	296
2.5°	332	336	335	332	331	331	323	318	313	313	309
5°	377	381	378	372	370	364	354	343	330	329	319
7.5°	414	417	415	407	407	396	383	366	346	341	326
10°	440	447	441	436	433	421	404	383	358	352	331
12.5°	458	465	460	454	451	437	418	394	365	357	332
15°	464	471	465	459	456	442	423	397	366	358	329
17.5°	456	463	457	450	447	434	413	388	358	349	319
20°	438	443	437	431	428	416	397	373	342	333	304
22.5°	410	418	413	408	404	391	374	353	323	314	286
25°	382	389	385	378	379	364	347	326	299	291	263
27.5°	346	354	353	345	344	335	315	295	270	262	235
30°	310	314	313	308	306	296	282	260	236	230	207
32.5°	269	273	269	266	261	252	237	219	193	193	171
35°	228	231	227	219	218	208	193	175	155	152	133
37.5°	183	189	183	177	178	170	152	138	120	116	101
40°	154	157	152	150	146	138	126	109	95	90	79
42.5°	133	135	131	127	126	117	106	94	78	75	63
45°	117	119	116	112	111	104	94	82	68	64	53
47.5°	104	105	104	102	100	94	84	73	60	57	47
50°	92	93	93	91	90	85	78	66	54	51	42
52.5°	82	84	83	81	81	77	71	61	49	46	37
55°	74	75	74	72	72	69	64	56	45	42	33
57.5°	64	66	66	65	64	62	58	50	40	38	30
60°	57	58	58	57	57	55	52	45	36	34	26
62.5°	50	51	51	50	50	48	45	40	32	30	23
65°	44	45	44	44	43	42	40	35	29	27	20
67.5°	39	40	39	39	39	37	34	30	25	24	17
70°	35	36	36	35	35	33	31	28	23	21	15
72.5°	33	33	33	32	31	31	29	26	21	19	14
75°	30	31	31	30	30	30	27	24	19	18	13
77.5°	29	29	29	29	29	27	25	22	18	16	12
80°	26	27	27	26	26	25	23	20	16	15	11
82.5°	23	23	23	22	22	22	20	17	14	13	9
85°	18	19	19	18	18	17	16	14	11	10	7
87.5°	13	13	13	13	12	12	11	10	8	7	4
90°	6	5	5	5	5	4	3	3	3	2	2
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°	296	296	296	296	296	296
2.5°	303	300	283	275	266	266
5°	305	297	265	241	227	222
7.5°	304	293	246	210	190	183
10°	300	286	223	183	161	151
12.5°	295	277	203	160	132	122
15°	285	265	183	137	110	101
17.5°	272	250	165	115	87	78
20°	255	230	143	95	67	58
22.5°	235	211	125	78	52	44
25°	213	187	106	64	40	33
27.5°	189	163	88	50	29	24
30°	163	141	74	38	20	15
32.5°	133	116	61	30	13	9
35°	104	91	48	23	8	6
37.5°	81	70	38	17	6	5
40°	62	54	31	13	6	6
42.5°	48	44	27	11	7	7
45°	41	36	22	9	6	4
47.5°	35	31	18	7	3	3
50°	30	26	14	5	2	2
52.5°	26	21	10	4	2	2
55°	22	17	7	3	2	2
57.5°	18	14	5	2	2	2
60°	15	10	4	2	1	1
62.5°	12	7	3	1	1	1
65°	9	5	2	1	1	1
67.5°	7	4	1	1	1	1
70°	6	3	1	1	1	1
72.5°	5	2	1	1	1	1
75°	5	2	1	1	1	1
77.5°	4	2	1	1	1	1
80°	4	2	1	1	1	1
82.5°	3	1	0	0	0	0
85°	2	1	0	0	0	0
87.5°	1	1	0	0	0	0
90°	1	0	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)