

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: E395863

Luminaire Tested: **H600-1636BA**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395863
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H600-1636BA
Description: HALO RECESSED INC. COILEX BAFFLE, 30 DEG. TILT
Light Source: 100R30FL, 1200 LUMENS
Ballast/Driver: -

Summary

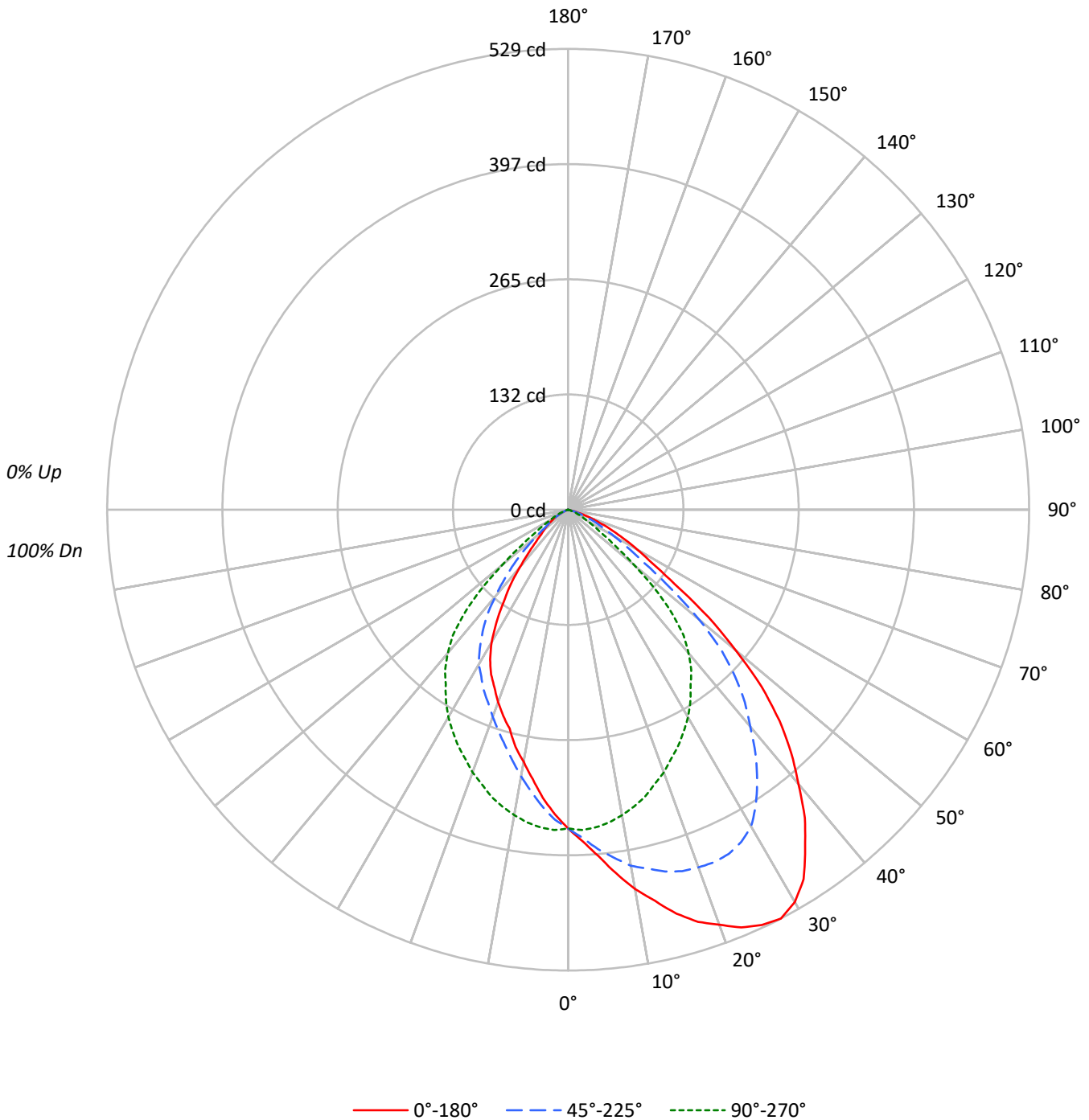
Lumens per Lamp: 1200 (1 lamp)
Luminaire Lumens: 686.1 lumens
Efficiency: 57.2%
Efficacy: 6.9 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.13 / 1.25
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '
CIE Type: Direct

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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	68	68	68	68	66	66	66	66	64	64	64	61	61	61	58	58	58	57		
1	64	62	60	59	63	61	59	58	58	57	56	56	55	54	54	53	53	52		
2	60	56	53	51	58	55	52	50	53	51	49	51	50	48	50	48	47	46		
3	56	51	47	44	54	50	47	44	48	46	43	47	45	43	46	44	42	41		
4	52	46	42	39	51	45	42	39	44	41	38	43	40	38	42	39	37	36		
5	48	42	38	35	47	41	37	35	40	37	34	39	36	34	38	36	34	32		
6	45	38	34	31	44	38	34	31	37	33	31	36	33	30	35	32	30	29		
7	42	35	31	28	41	35	31	28	34	30	28	33	30	28	33	30	27	26		
8	39	33	28	25	38	32	28	25	31	28	25	31	27	25	30	27	25	24		
9	37	30	26	23	36	30	26	23	29	25	23	29	25	23	28	25	23	22		
10	35	28	24	21	34	28	24	21	27	24	21	27	23	21	26	23	21	20		

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°	34.8	5.1	2.9
10°-20°	100.4	14.6	8.4
20°-30°	153.1	22.3	12.8
30°-40°	171.0	24.9	14.2
40°-50°	137.8	20.1	11.5
50°-60°	64.0	9.3	5.3
60°-70°	21.7	3.2	1.8
70°-80°	3.1	0.5	0.3
80°-90°	0.0	0.0	0.0
90°-100°	0.0	0.0	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°	288.4	42.0	24.0
0°-40°	459.4	67.0	38.3
0°-60°	661.3	96.4	55.1
0°-90°	686.1	100.0	57.2
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	686.1	100.0	57.2

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	366	366	366	366	366	
5°	399	391	366	342	332	39
15°	480	430	341	280	260	136
25°	526	436	299	229	209	242
35°	474	378	245	171	129	295
45°	343	271	169	88	53	260
55°	149	107	46	25	25	142
65°	55	35	13	7	7	55
75°	6	3	1	1	1	9
85°	0	0	0	0	0	0
90°	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°	366	366	366	366	366	366	366	366	366	366	366
2.5°	381	382	383	383	382	380	377	376	373	373	371
5°	399	400	400	401	400	396	391	386	380	378	374
7.5°	421	423	419	419	417	410	403	394	385	382	375
10°	442	443	439	437	434	424	415	401	388	385	374
12.5°	460	461	459	453	451	438	422	407	389	385	372
15°	480	480	474	469	465	449	430	410	388	383	368
17.5°	496	494	489	482	477	458	435	410	386	380	362
20°	507	508	500	491	487	464	437	410	382	375	355
22.5°	519	518	510	499	494	467	438	407	375	368	347
25°	526	526	515	504	497	469	436	402	369	361	338
27.5°	529	529	518	504	497	466	430	394	360	352	327
30°	520	520	508	495	487	455	420	382	348	340	315
32.5°	503	500	489	475	467	436	401	365	330	322	299
35°	474	475	464	449	443	412	378	344	311	304	282
37.5°	446	442	432	418	413	385	353	321	290	283	262
40°	411	412	398	388	380	353	325	296	270	264	243
42.5°	379	376	365	356	349	326	300	272	245	240	224
45°	343	342	331	322	318	297	271	246	222	213	197
47.5°	301	301	296	285	281	260	238	210	186	182	163
50°	251	258	246	236	232	219	196	171	143	141	127
52.5°	203	198	192	188	185	164	148	128	107	104	88
55°	149	151	146	137	134	123	107	92	74	73	64
57.5°	114	116	110	107	102	93	80	68	56	53	45
60°	92	90	88	83	81	71	61	49	41	38	34
62.5°	71	73	68	62	61	54	45	38	31	29	25
65°	55	53	50	48	47	40	35	27	22	21	18
67.5°	38	39	37	34	34	29	24	19	15	14	12
70°	27	26	25	24	23	19	15	12	9	9	7
72.5°	16	15	14	13	13	10	9	6	5	4	3
75°	6	6	6	5	5	5	3	2	1	1	1
77.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
90°	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°	366	366	366	366	366	366
2.5°	368	368	362	356	352	350
5°	368	366	352	342	333	332
7.5°	365	362	342	326	316	312
10°	361	356	330	311	297	294
12.5°	356	349	317	295	282	279
15°	349	341	305	280	267	260
17.5°	341	330	291	266	251	248
20°	330	321	279	253	239	235
22.5°	321	309	266	240	226	221
25°	310	299	255	229	214	209
27.5°	298	287	243	216	200	194
30°	287	275	232	205	185	176
32.5°	271	261	219	189	163	153
35°	257	245	207	171	140	129
37.5°	240	232	193	153	120	109
40°	221	215	176	130	97	86
42.5°	203	196	156	108	76	67
45°	175	169	131	88	61	53
47.5°	146	136	96	67	47	42
50°	108	99	68	47	39	36
52.5°	77	68	44	33	31	31
55°	52	46	31	25	24	25
57.5°	36	34	23	20	20	20
60°	27	24	17	15	15	16
62.5°	19	18	13	11	11	11
65°	14	13	8	7	7	7
67.5°	9	8	5	4	4	4
70°	5	4	3	2	2	2
72.5°	2	2	1	2	2	2
75°	1	1	1	1	1	1
77.5°	0	0	0	0	0	0
80°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0

(END OF REPORT)