

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: E395859

Luminaire Tested: **H600-1636BA**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395859
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: 75R30FL, 900 LUMENS
Ballast/Driver: -

Summary

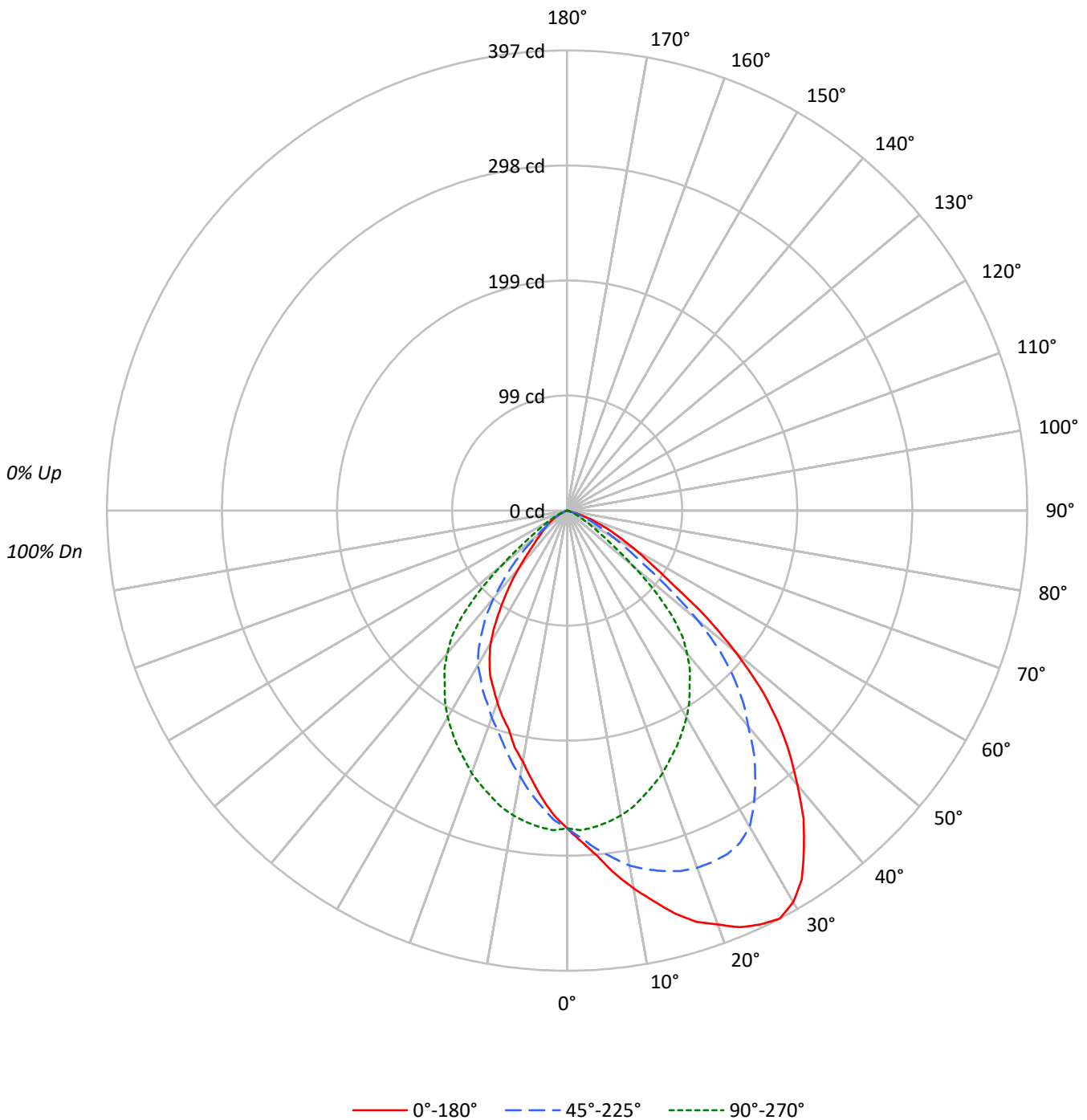
Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 514.6 lumens
Efficiency: 57.2%
Efficacy: 6.9 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.13 / 1.25
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 75
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			
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°	26.1	5.1	2.9
10°-20°	75.3	14.6	8.4
20°-30°	114.8	22.3	12.8
30°-40°	128.2	24.9	14.2
40°-50°	103.4	20.1	11.5
50°-60°	48.0	9.3	5.3
60°-70°	16.3	3.2	1.8
70°-80°	2.4	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°	216.3	42.0	24.0
0°-40°	344.5	66.9	38.3
0°-60°	495.9	96.4	55.1
0°-90°	514.6	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°	514.6	100.0	57.2

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	274	274	274	274	274	
5°	299	293	274	256	249	30
15°	360	322	255	210	195	102
25°	394	327	224	172	157	181
35°	356	283	184	128	97	222
45°	257	203	127	66	40	195
55°	111	80	35	19	19	106
65°	41	26	9	6	5	41
75°	4	2	1	1	1	7
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°	274	274	274	274	274	274	274	274	274	274	274
2.5°	286	286	287	287	286	285	283	282	280	280	278
5°	299	300	300	301	300	297	293	289	285	283	280
7.5°	316	317	314	314	313	308	302	296	288	287	281
10°	331	332	329	328	326	318	311	301	291	288	281
12.5°	345	346	344	339	339	328	317	305	292	289	279
15°	360	360	355	352	349	337	322	308	291	287	276
17.5°	372	371	367	361	358	343	326	308	290	285	272
20°	380	381	375	369	365	348	328	307	286	281	266
22.5°	389	388	382	374	370	350	328	305	282	276	260
25°	394	394	387	378	373	352	327	301	277	271	253
27.5°	397	397	388	378	373	349	323	296	270	264	245
30°	390	390	381	371	365	341	315	287	261	255	236
32.5°	377	375	367	356	350	327	300	273	247	242	224
35°	356	357	348	337	332	309	283	258	233	228	212
37.5°	335	332	324	314	309	288	265	241	217	212	196
40°	309	309	298	291	285	265	243	222	202	198	183
42.5°	284	282	273	267	261	245	225	204	184	180	168
45°	257	256	248	241	238	223	203	184	166	160	148
47.5°	226	226	222	214	211	195	178	158	140	136	123
50°	189	194	185	177	174	164	147	128	107	105	95
52.5°	152	149	144	141	139	123	111	96	80	78	66
55°	111	113	109	103	101	93	80	69	56	55	48
57.5°	86	87	83	80	76	70	60	51	42	40	34
60°	69	67	66	62	60	54	46	37	30	29	26
62.5°	53	54	51	47	46	41	34	29	23	22	19
65°	41	40	37	36	35	30	26	20	16	16	13
67.5°	29	29	27	26	25	22	18	14	11	10	9
70°	20	20	19	18	17	15	11	9	7	7	5
72.5°	12	11	11	10	10	8	6	5	4	3	2
75°	4	5	5	4	4	3	2	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°	274	274	274	274	274	274
2.5°	276	276	272	267	264	263
5°	276	274	264	256	249	249
7.5°	274	271	257	245	237	234
10°	271	267	247	233	223	220
12.5°	267	262	238	222	212	209
15°	262	255	229	210	200	195
17.5°	255	248	218	199	188	186
20°	248	241	209	190	179	176
22.5°	241	232	200	180	169	166
25°	232	224	191	172	161	157
27.5°	223	215	182	162	150	145
30°	215	206	174	154	139	132
32.5°	203	196	165	142	122	115
35°	193	184	155	128	105	97
37.5°	180	174	145	115	90	81
40°	166	161	132	98	73	65
42.5°	152	147	117	81	57	50
45°	131	127	98	66	46	40
47.5°	109	102	72	50	35	32
50°	81	74	51	35	29	27
52.5°	58	51	33	25	23	23
55°	39	35	23	19	18	19
57.5°	27	25	17	15	15	15
60°	20	18	13	11	11	12
62.5°	15	13	10	9	8	8
65°	10	9	6	6	5	5
67.5°	7	6	4	3	3	3
70°	4	3	2	2	2	2
72.5°	2	2	1	1	1	1
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)