

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: E395851

Luminaire Tested: **H600-1636BA**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395851
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: 150R40FL, 1900 LUMENS
Ballast/Driver: -

Summary

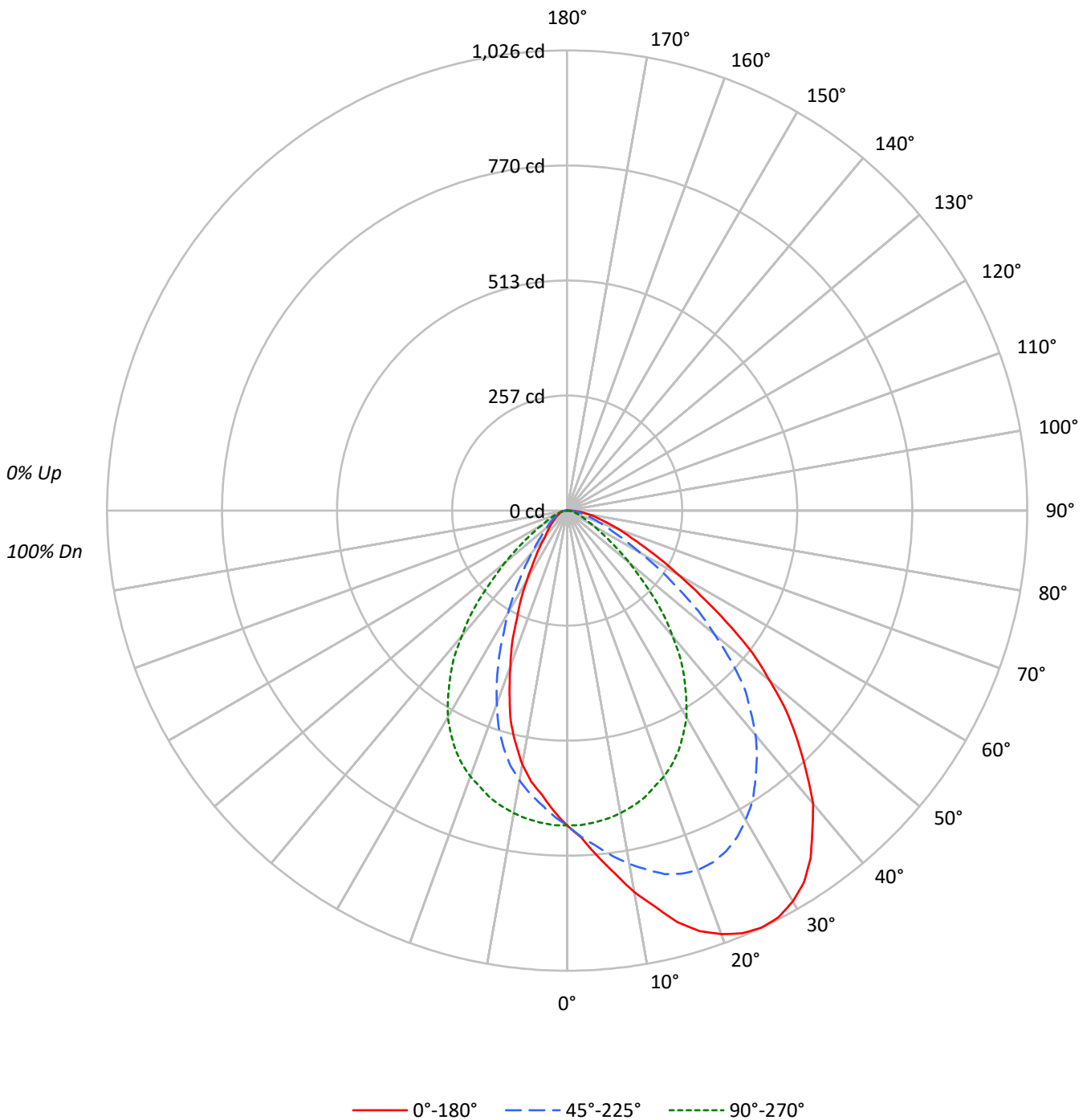
Lumens per Lamp: 1900 (1 lamp)
Luminaire Lumens: 1371.9 lumens
Efficiency: 72.2%
Efficacy: 9.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.14 / 1.2
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '
CIE Type: Direct

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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	86	86	86	86	84	84	84	84	80	80	80	77	77	77	74	74	74	72	72	72
1	80	77	75	73	78	76	73	71	73	71	69	70	68	67	67	66	65	64	64	64
2	74	69	65	62	72	68	64	61	65	62	60	63	61	58	61	59	57	56	56	56
3	69	62	57	53	67	61	57	53	59	55	52	57	54	51	55	53	50	49	49	49
4	64	56	51	47	62	55	50	46	54	49	46	52	48	45	51	47	45	43	43	43
5	59	51	45	41	58	50	45	41	49	44	41	48	43	40	46	43	40	38	38	38
6	55	47	41	37	54	46	41	37	45	40	36	44	39	36	42	39	36	34	34	34
7	51	43	37	33	50	42	37	33	41	36	33	40	36	33	39	35	32	31	31	31
8	48	39	34	30	47	39	34	30	38	33	30	37	33	30	36	32	29	28	28	28
9	45	36	31	27	44	36	31	27	35	30	27	34	30	27	34	30	27	26	26	26
10	43	34	29	25	42	33	28	25	33	28	25	32	28	25	31	28	25	24	24	24

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°	67.2	4.9	3.5
10°-20°	194.5	14.2	10.2
20°-30°	279.3	20.4	14.7
30°-40°	297.7	21.7	15.7
40°-50°	252.8	18.4	13.3
50°-60°	157.5	11.5	8.3
60°-70°	74.9	5.5	3.9
70°-80°	35.0	2.6	1.8
80°-90°	12.2	0.9	0.6
90°-100°	0.8	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°	541.0	39.4	28.5
0°-40°	838.7	61.1	44.1
0°-60°	1249.1	91.0	65.7
0°-90°	1371.1	99.9	72.2
90°-120°	0.8	0.1	0.0
90°-150°	0.8	0.1	0.0
90°-180°	1.0	0.1	0.1
0°-180°	1371.9	100.0	72.2

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	702	702	702	702	702	
5°	773	751	698	658	637	76
15°	950	839	663	547	486	269
25°	1026	838	589	358	264	471
35°	946	732	455	180	118	588
45°	727	559	272	83	58	559
55°	434	299	112	45	36	389
65°	185	116	43	27	23	191
75°	76	50	19	15	15	86
85°	26	14	6	6	8	26
90°	8	3	2	1	4	5
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°	702	702	702	702	702	702	702	702	702	702	702
2.5°	730	735	736	735	732	727	728	720	716	714	711
5°	773	775	773	769	768	760	751	740	730	725	717
7.5°	816	822	815	810	808	788	777	757	738	733	719
10°	864	862	859	845	844	822	800	773	747	738	720
12.5°	904	910	899	887	878	854	820	786	751	741	718
15°	950	947	941	921	915	877	839	795	752	741	713
17.5°	983	982	967	948	941	898	849	799	748	736	703
20°	1005	1005	986	967	956	908	853	796	741	727	692
22.5°	1020	1020	997	976	966	910	849	787	727	713	676
25°	1026	1026	1003	977	965	905	838	771	710	695	659
27.5°	1022	1021	999	968	956	891	821	753	688	673	637
30°	1006	1008	982	950	936	871	796	725	664	650	612
32.5°	983	980	956	922	907	839	769	699	638	624	584
35°	946	949	922	887	875	805	732	666	610	595	554
37.5°	898	901	877	844	827	765	695	629	574	563	519
40°	853	847	825	794	781	716	654	596	540	524	481
42.5°	789	796	772	745	730	672	605	550	494	482	434
45°	727	732	713	685	668	614	559	501	444	427	381
47.5°	664	663	643	611	608	553	495	442	389	374	327
50°	590	596	576	546	537	489	428	378	329	312	270
52.5°	520	513	492	468	464	417	370	319	265	258	217
55°	434	432	415	390	390	345	299	255	213	200	165
57.5°	353	355	343	323	313	279	244	201	158	152	126
60°	287	287	272	260	251	222	188	151	121	116	94
62.5°	234	228	219	206	202	173	148	118	94	87	74
65°	185	189	177	168	163	141	116	93	74	68	58
67.5°	149	153	146	134	130	113	93	73	60	57	48
70°	124	121	115	107	106	91	75	61	49	46	38
72.5°	98	98	93	88	85	74	61	49	39	38	31
75°	76	77	73	69	68	59	50	40	31	29	25
77.5°	64	64	59	56	55	47	38	31	24	23	19
80°	49	49	47	43	41	36	30	23	18	17	14
82.5°	36	37	34	32	32	26	22	17	13	12	11
85°	26	26	24	22	22	19	14	11	9	8	7
87.5°	17	16	16	14	14	11	9	7	5	5	4
90°	8	9	7	6	6	4	3	3	2	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°	702	702	702	702	702	702
2.5°	706	702	693	682	674	671
5°	706	698	676	658	647	637
7.5°	703	693	661	636	616	610
10°	697	685	644	611	586	575
12.5°	690	675	627	583	547	531
15°	680	663	603	547	503	486
17.5°	667	646	575	507	454	427
20°	651	631	547	458	393	370
22.5°	633	612	511	410	341	321
25°	611	589	476	358	289	264
27.5°	589	561	429	306	238	223
30°	561	532	382	263	198	179
32.5°	529	494	338	218	161	143
35°	494	455	289	180	133	118
37.5°	448	415	250	149	106	96
40°	408	365	208	120	86	77
42.5°	359	322	175	101	73	67
45°	308	272	143	83	64	58
47.5°	260	220	113	69	55	51
50°	209	182	92	61	48	45
52.5°	167	143	76	52	43	40
55°	128	112	64	45	38	36
57.5°	97	86	54	39	34	32
60°	75	66	44	35	31	29
62.5°	59	53	37	31	28	26
65°	48	43	31	27	25	23
67.5°	39	35	26	23	22	21
70°	31	29	22	20	19	19
72.5°	25	23	19	17	17	17
75°	20	19	15	15	15	15
77.5°	16	15	12	12	13	13
80°	12	11	9	9	11	12
82.5°	9	8	7	8	9	10
85°	6	6	5	6	7	8
87.5°	4	4	3	5	6	6
90°	2	2	1	1	2	4
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)