

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: E395864

Luminaire Tested: **H600-1625**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: E395864  
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: 100R40SP, 1160 LUMENS  
Ballast/Driver: -

**Summary**

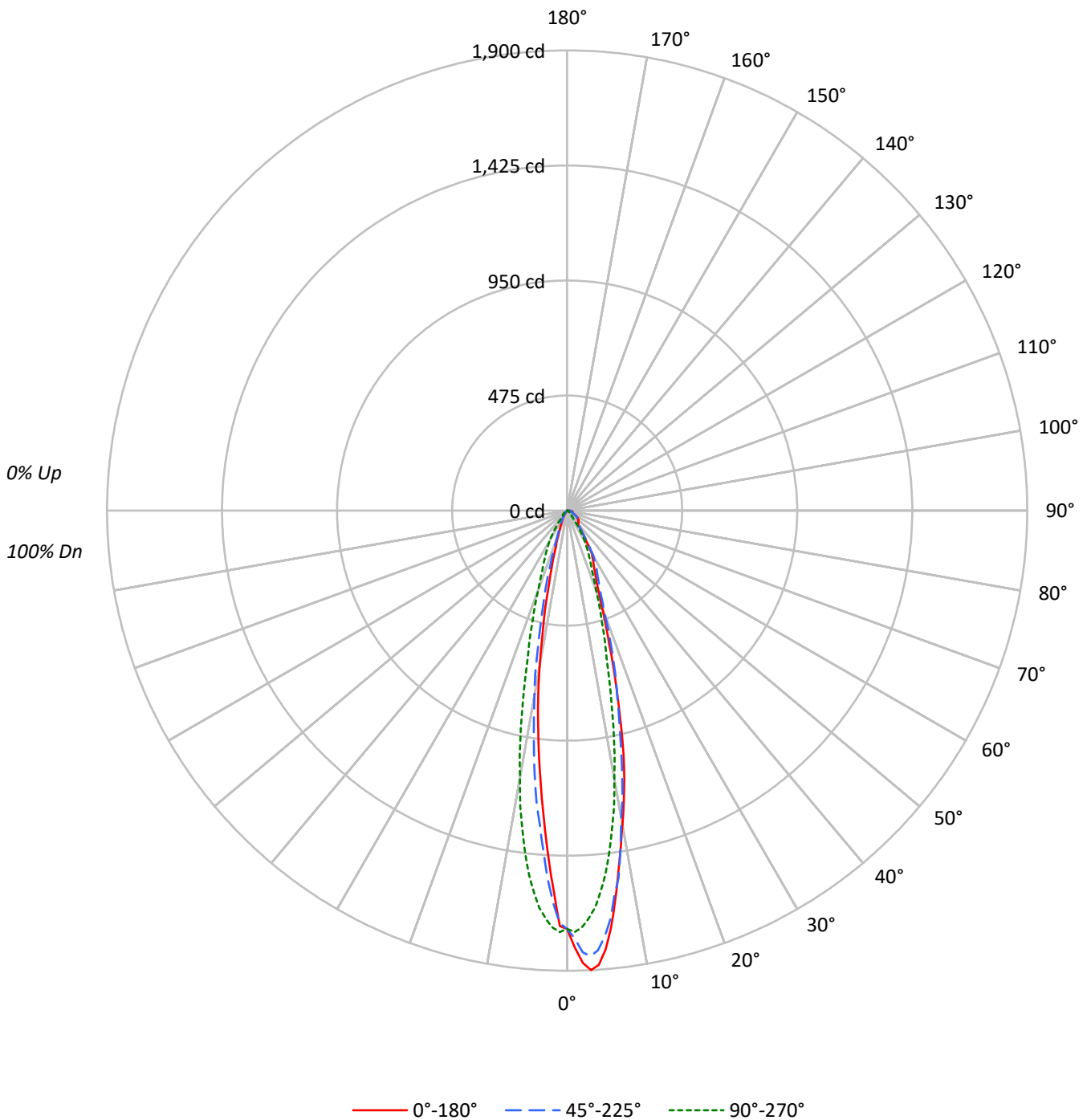
Lumens per Lamp: 1160 (1 lamp)  
Luminaire Lumens: 499.9 lumens  
Efficiency: 43.1%  
Efficacy: 5.0 lumens/watt  
Spacing Criteria (0/90/45): 0.38 / 0.42 / 0.42  
Luminous Opening: (L: 0 ' x W: -0.37 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 100  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	50	30	10	0			
RCR																								
0	51	51	51	51	50	50	50	50	48	48	48	46	46	46	44	44	44	43	43	43	40	40		
1	49	47	46	45	48	47	45	45	45	44	43	43	42	42	42	41	41	40	40	40	37	37		
2	46	44	42	41	45	44	42	41	42	41	40	41	40	39	40	39	38	37	37	37	35	35		
3	44	42	39	38	43	41	39	37	40	38	37	39	37	36	38	37	36	35	35	35	33	33		
4	42	39	37	35	42	39	37	35	38	36	35	37	35	34	36	35	34	33	33	33	31	31		
5	41	37	35	33	40	37	35	33	36	34	33	35	34	32	35	33	32	31	31	31	29	29		
6	39	35	33	31	38	35	33	31	34	33	31	34	32	31	33	32	31	30	30	30	28	28		
7	37	34	32	30	37	34	31	30	33	31	30	33	31	29	32	31	29	29	29	29	27	27		
8	36	32	30	29	36	32	30	28	32	30	28	31	30	28	31	29	28	28	28	28	26	26		
9	35	31	29	27	34	31	29	27	31	29	27	30	28	27	30	28	27	27	27	27	25	25		
10	34	30	28	26	33	30	28	26	30	28	26	29	27	26	29	27	26	26	26	26	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°	130.6	26.1	11.3
10°-20°	163.2	32.7	14.1
20°-30°	89.2	17.9	7.7
30°-40°	43.3	8.7	3.7
40°-50°	24.2	4.8	2.1
50°-60°	20.1	4.0	1.7
60°-70°	12.6	2.5	1.1
70°-80°	9.4	1.9	0.8
80°-90°	6.6	1.3	0.6
90°-100°	0.6	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°	383.1	76.6	33.0
0°-40°	426.4	85.3	36.8
0°-60°	470.7	94.2	40.6
0°-90°	499.3	99.9	43.0
90°-120°	0.6	0.1	0.0
90°-150°	0.6	0.1	0.0
90°-180°	1.0	0.2	0.1
0°-180°	499.9	100.0	43.1

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1727	1727	1727	1727	1727	
5°	1820	1768	1581	1300	1194	155
15°	813	803	630	358	246	223
25°	264	298	219	68	51	127
35°	109	107	70	21	5	72
45°	67	59	22	5	2	51
55°	52	49	12	1	1	46
65°	28	26	3	1	1	30
75°	23	20	1	0	0	24
85°	18	16	1	0	0	15
90°	7	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°	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727
1°	1804	1795	1802	1790	1800	1793	1767	1771	1763	1758	1757
2°	1869	1869	1871	1863	1867	1847	1825	1808	1790	1785	1772
3°	1900	1890	1892	1882	1882	1866	1842	1818	1791	1787	1765
4°	1880	1867	1871	1856	1861	1850	1821	1800	1767	1763	1736
5°	1820	1807	1810	1793	1805	1789	1768	1756	1734	1717	1685
6°	1732	1716	1714	1701	1733	1718	1699	1685	1650	1649	1612
7°	1625	1607	1609	1602	1612	1620	1601	1591	1565	1572	1548
8°	1515	1515	1508	1507	1505	1531	1529	1482	1473	1469	1450
9°	1411	1385	1397	1411	1403	1416	1408	1387	1365	1368	1342
10°	1314	1293	1290	1313	1310	1301	1288	1269	1256	1264	1232
11°	1226	1205	1215	1215	1206	1193	1197	1190	1142	1151	1119
12°	1135	1127	1123	1122	1110	1093	1090	1047	1055	1043	1014
13°	1035	1041	1027	1024	1016	1002	983	961	944	945	924
14°	923	930	922	921	924	914	889	862	847	848	823
15°	813	814	817	814	840	825	803	793	759	755	733
17.5°	578	574	597	600	598	618	624	601	583	576	566
20°	410	418	417	428	428	449	448	460	438	430	423
22.5°	315	313	318	329	336	342	351	361	352	352	341
25°	264	262	273	275	281	290	298	310	310	311	298
27.5°	230	229	239	244	246	253	259	269	272	272	260
30°	204	206	209	209	209	218	217	220	217	216	210
32.5°	144	137	134	140	139	145	150	153	153	154	150
35°	109	108	107	109	107	107	107	105	108	107	102
37.5°	78	77	77	76	77	76	76	73	69	68	59
40°	70	70	68	67	67	66	64	61	54	53	46
45°	67	66	66	65	64	62	59	55	49	48	40
50°	60	59	60	59	59	57	54	49	44	42	35
55°	52	52	51	52	52	50	49	44	38	37	30
60°	41	41	41	41	41	40	38	36	31	29	23
65°	28	28	28	28	28	27	26	24	20	19	15
70°	24	24	24	24	23	23	21	19	16	15	12
75°	23	23	23	23	22	22	20	18	15	14	11
80°	22	22	22	22	21	21	19	17	14	13	10
85°	18	18	18	18	18	17	16	14	12	11	8
90°	7	7	6	6	6	5	3	3	4	4	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
135°	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°
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°	1727	1727	1727	1727	1727	1727
1°	1742	1741	1728	1705	1700	1716
2°	1736	1723	1661	1623	1581	1575
3°	1720	1687	1593	1526	1449	1445
4°	1686	1644	1497	1408	1337	1319
5°	1631	1581	1394	1300	1228	1194
6°	1559	1511	1331	1208	1108	1078
7°	1477	1425	1220	1099	996	969
8°	1387	1328	1130	986	891	865
9°	1289	1240	1021	877	793	764
10°	1185	1121	919	777	697	659
11°	1073	1027	807	691	599	548
12°	959	919	705	577	491	460
13°	853	813	602	494	409	384
14°	766	716	514	419	334	305
15°	682	630	444	358	267	246
17.5°	518	471	318	217	160	151
20°	394	349	212	131	108	101
22.5°	312	268	146	89	73	72
25°	268	219	101	68	54	51
27.5°	230	181	72	51	43	40
30°	184	145	52	38	32	31
32.5°	131	108	39	29	23	18
35°	84	70	30	21	11	5
37.5°	48	44	23	14	7	6
40°	34	30	19	12	11	10
45°	28	22	11	5	3	2
50°	22	17	5	2	1	1
55°	18	12	3	1	1	1
60°	13	8	2	1	1	1
65°	7	3	1	1	1	1
70°	5	2	1	0	0	0
75°	4	1	0	0	0	0
80°	4	1	0	0	0	0
85°	2	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
135°	0	0	0	0	0	0





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**CANDELA DISTRIBUTION (continued):**

	85°	90°	112.5°	135°	157.5°	180°
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)