

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: E395836

Luminaire Tested: **H600-1625**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395836
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: 150R40SP, 1900 LUMENS
Ballast/Driver: -

Summary

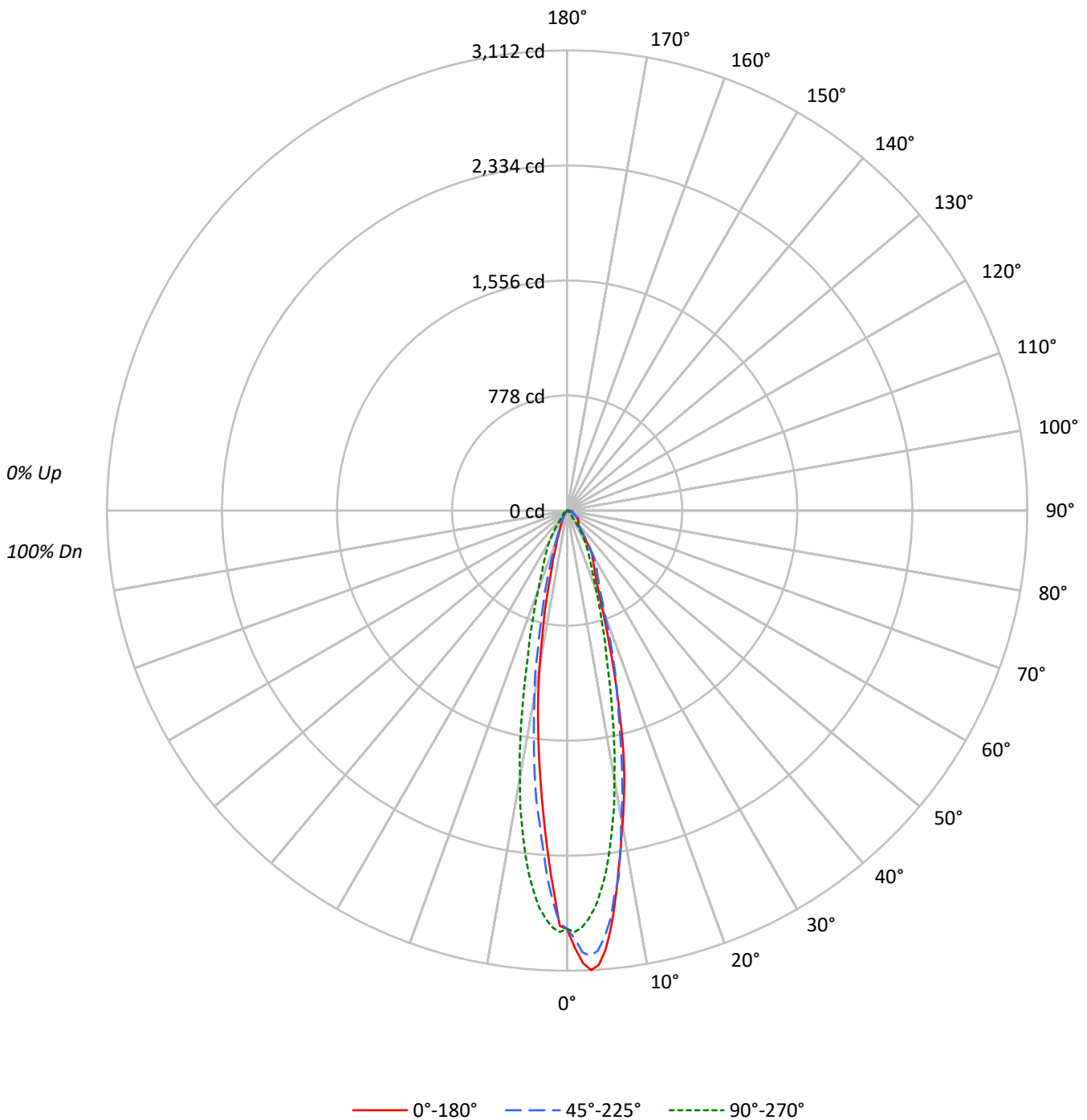
Lumens per Lamp: 1900 (1 lamp)
Luminaire Lumens: 819.1 lumens
Efficiency: 43.1%
Efficacy: 5.5 lumens/watt
Spacing Criteria (0/90/45): 0.38 / 0.42 / 0.42
Luminous Opening: (L: 0 ' x W: -0.37 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 150
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				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	29	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	26	26		
10	34	30	28	26	33	30	28	26	30	28	26	29	27	26	29	27	26	26	26	26	25	25		

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°	214.0	26.1	11.3
10°-20°	267.4	32.6	14.1
20°-30°	146.2	17.8	7.7
30°-40°	70.9	8.6	3.7
40°-50°	39.8	4.9	2.1
50°-60°	32.9	4.0	1.7
60°-70°	20.5	2.5	1.1
70°-80°	15.7	1.9	0.8
80°-90°	10.8	1.3	0.6
90°-100°	0.9	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°	627.6	76.6	33.0
0°-40°	698.4	85.3	36.8
0°-60°	771.2	94.1	40.6
0°-90°	818.2	99.9	43.1
90°-120°	0.9	0.1	0.0
90°-150°	0.9	0.1	0.0
90°-180°	1.0	0.1	0.1
0°-180°	819.1	100.0	43.1

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2829	2829	2829	2829	2829	
5°	2981	2896	2589	2129	1956	254
15°	1332	1316	1032	586	402	365
25°	432	488	358	111	84	207
35°	178	175	114	34	9	118
45°	110	97	37	8	4	84
55°	85	79	20	2	2	75
65°	46	43	5	1	1	49
75°	38	33	2	1	1	40
85°	29	27	1	0	0	24
90°	12	4	0	0	0	7
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°	2829	2829	2829	2829	2829	2829	2829	2829	2829	2829	2829
1°	2956	2940	2951	2932	2948	2938	2894	2902	2888	2879	2878
2°	3062	3062	3065	3051	3058	3026	2989	2962	2931	2924	2903
3°	3112	3096	3099	3083	3083	3056	3017	2978	2934	2927	2891
4°	3080	3058	3064	3040	3049	3030	2983	2948	2894	2888	2844
5°	2981	2959	2965	2936	2956	2931	2896	2877	2840	2812	2760
6°	2836	2811	2808	2786	2838	2813	2784	2760	2702	2700	2641
7°	2662	2633	2636	2624	2641	2654	2623	2606	2563	2576	2535
8°	2481	2481	2470	2469	2465	2509	2504	2428	2413	2406	2374
9°	2311	2268	2289	2311	2298	2319	2307	2271	2237	2241	2199
10°	2152	2118	2113	2151	2147	2132	2110	2079	2057	2071	2019
11°	2008	1974	1990	1990	1976	1954	1960	1949	1871	1886	1833
12°	1859	1846	1840	1837	1817	1791	1785	1714	1728	1708	1661
13°	1695	1706	1683	1677	1665	1641	1609	1575	1547	1547	1514
14°	1512	1523	1510	1508	1513	1497	1457	1411	1387	1389	1348
15°	1332	1334	1339	1334	1376	1351	1316	1299	1244	1236	1201
17.5°	947	939	978	983	979	1013	1023	984	954	943	928
20°	672	685	684	702	701	735	734	754	717	705	693
22.5°	515	513	521	539	550	560	575	592	577	577	559
25°	432	429	447	450	460	475	488	508	508	509	489
27.5°	377	375	391	399	402	414	424	441	446	445	425
30°	335	337	342	343	343	357	355	361	355	354	344
32.5°	236	225	220	229	228	238	246	251	250	252	245
35°	178	177	175	178	175	175	175	172	178	175	166
37.5°	128	126	125	125	126	124	125	120	113	111	97
40°	115	114	112	110	110	108	106	99	89	86	75
45°	110	109	108	106	105	101	97	91	81	78	66
50°	98	97	98	97	96	93	88	81	72	69	57
55°	85	85	84	84	85	83	79	72	62	60	49
60°	67	67	67	67	66	66	63	58	51	48	38
65°	46	46	46	46	45	44	43	39	33	32	24
70°	39	39	39	39	38	37	35	32	27	25	19
75°	38	37	37	37	37	35	33	30	25	23	17
80°	36	36	36	35	35	34	32	29	23	22	16
85°	29	30	30	30	30	28	27	23	19	18	12
90°	12	12	10	10	10	8	4	5	6	6	5
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°	2829	2829	2829	2829	2829	2829
1°	2854	2851	2830	2792	2785	2810
2°	2844	2822	2720	2658	2589	2581
3°	2818	2764	2610	2500	2373	2367
4°	2762	2693	2451	2307	2190	2160
5°	2672	2589	2283	2129	2012	1956
6°	2554	2476	2181	1979	1815	1766
7°	2420	2334	1998	1800	1631	1588
8°	2271	2176	1851	1615	1459	1417
9°	2111	2030	1672	1436	1298	1251
10°	1940	1836	1505	1273	1142	1080
11°	1758	1683	1323	1132	981	898
12°	1571	1505	1156	944	805	754
13°	1397	1332	986	810	670	628
14°	1255	1172	841	686	547	499
15°	1118	1032	727	586	437	402
17.5°	849	772	522	356	263	248
20°	645	572	347	214	178	165
22.5°	511	439	240	146	119	118
25°	439	358	165	111	89	84
27.5°	376	297	118	83	70	65
30°	301	237	85	63	53	50
32.5°	214	176	64	48	37	29
35°	138	114	50	34	18	9
37.5°	79	72	38	23	11	10
40°	56	49	31	20	17	17
45°	46	37	17	8	6	4
50°	37	28	9	4	2	2
55°	29	20	5	2	2	2
60°	21	12	3	1	1	1
65°	11	5	1	1	1	1
70°	8	3	1	1	1	1
75°	7	2	1	1	1	1
80°	6	2	0	0	0	0
85°	4	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)