

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: H22563

Luminaire Tested: **H803E-810WW**

Issue Date: 3/3/2020



**Test Information**

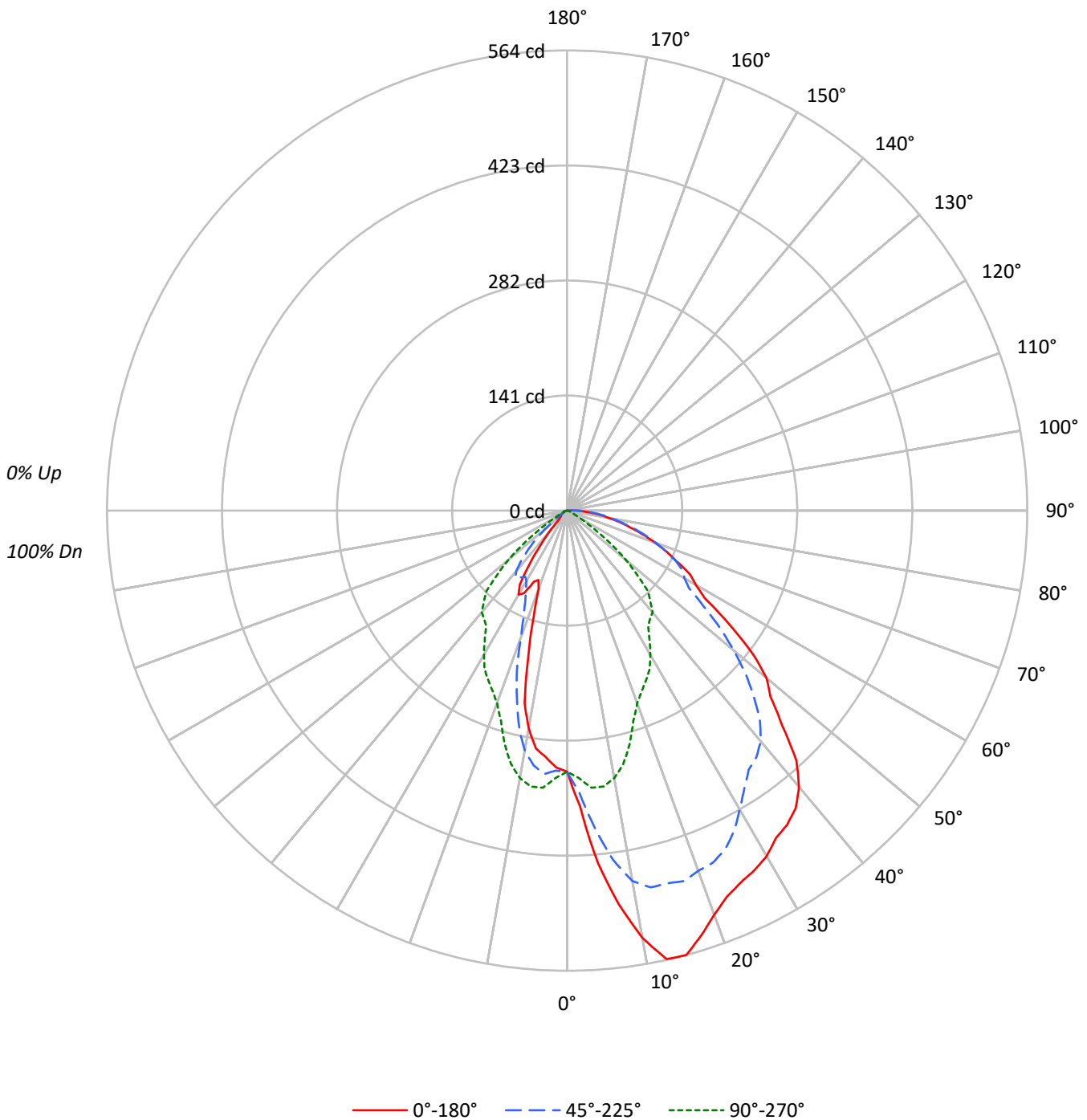
Test Method: LM-46-04  
Report Number: H22563  
Test Lab: Peachtree City  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H803E-810WW  
Description: HALO 6 IN RECESSED FLUORESCENT WALLWASH  
WITH BLACK BAFFLE WITH DIFFUSE WALLWASH SCOOP  
LAMPS PARALLEL TO SCOOP OPENING  
LAMP BASE AT 90° LATERAL  
Light Source: TWO 4 PIN DTT COMPACT FLUORESCENT LAMPS  
TWO PLC 26W/827 26 WATTS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1800 (2 lamps)  
Luminaire Lumens: 749.7 lumens  
Efficiency: 20.8%  
Efficacy: 14.1 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.54' x L: 0.28' x H: 0.06')  
CIE Type: Direct  
  
Input Watts (W): 53  
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									
RC	80									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	50	30	10	0													
RCR																																					
0	25	25	25	25	24	24	24	24	23	23	23	22	22	22	21	21	21	21	21	21	21	21	21	21													
1	23	22	21	20	22	21	21	20	21	20	19	20	19	19	19	19	18	18	18	18	18	18	18	18													
2	21	19	18	17	20	19	18	17	18	17	16	18	17	16	17	16	16	15	15	15	15	15	15	15													
3	19	17	16	15	19	17	16	14	16	15	14	16	15	14	15	14	14	13	13	13	13	13	13	13													
4	18	16	14	13	17	15	14	13	15	13	12	14	13	12	14	13	12	12	12	12	12	12	12	12													
5	17	14	12	11	16	14	12	11	13	12	11	13	12	11	13	12	11	11	11	11	11	11	11	10													
6	15	13	11	10	15	13	11	10	12	11	10	12	11	10	12	10	10	9	9	9	9	9	9	9													
7	14	12	10	9	14	12	10	9	11	10	9	11	10	9	11	9	9	8	8	8	8	8	8	8													
8	13	11	9	8	13	11	9	8	10	9	8	10	9	8	10	8	8	7	7	7	7	7	7	7													
9	13	10	8	7	12	10	8	7	10	8	7	9	8	7	9	7	7	6	6	6	6	6	6	6													
10	12	9	8	7	12	9	8	7	9	8	7	9	7	7	9	7	7	6	6	6	6	6	6	6													

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	22610	22610	22610
5°	30195	23944	21081
10°	36729	23415	18710
15°	38937	21002	12634
20°	36660	18112	7095
25°	35532	16941	6781
30°	35359	15604	8605
35°	35081	13807	6046
40°	34360	13707	2565
45°	30494	12542	1063
50°	27723	9083	869
55°	22629	4865	748
60°	18571	1767	612
65°	16871	938	453
70°	14623	627	385
75°	11938	572	448
80°	9361	492	360
85°	6641	350	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	34.5	4.6	1.0
10°-20°	96.4	12.9	2.7
20°-30°	129.8	17.3	3.6
30°-40°	150.1	20.0	4.2
40°-50°	137.7	18.4	3.8
50°-60°	89.7	12.0	2.5
60°-70°	59.6	7.9	1.7
70°-80°	36.3	4.8	1.0
80°-90°	14.7	2.0	0.4
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°	260.7	34.8	7.2
0°-40°	410.7	54.8	11.4
0°-60°	638.2	85.1	17.7
0°-90°	748.8	99.9	20.8
90°-120°	0.9	0.1	0.0
90°-150°	0.9	0.1	0.0
90°-180°	1.0	0.1	0.0
0°-180°	749.7	100.0	20.8

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	320	320	320	320	320	
5°	434	391	341	324	303	44
15°	564	473	296	238	183	156
25°	503	458	229	121	96	233
35°	470	388	173	100	81	293
45°	373	324	140	67	13	290
55°	242	204	46	11	8	218
65°	149	147	7	5	4	148
75°	80	85	3	3	3	86
85°	29	33	1	1	0	29
90°	11	14	0	0	0	6
95°	0	0	0	0	0	0
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°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	320	320	320	320	320	320	320	320	320
2.5°	363	356	346	334	328	323	319	316	315
5°	434	422	391	358	341	335	324	309	303
7.5°	487	473	432	372	341	338	315	299	294
10°	532	514	461	382	333	326	299	279	271
12.5°	563	542	473	383	318	307	272	247	241
15°	564	544	473	370	296	279	238	202	183
17.5°	546	537	476	358	270	249	205	148	137
20°	527	526	470	349	251	227	165	113	102
22.5°	512	506	467	345	239	213	138	93	92
25°	503	487	458	343	229	201	121	99	96
27.5°	497	475	443	344	219	188	109	116	114
30°	489	455	423	339	204	168	100	120	119
32.5°	476	443	404	324	188	145	96	109	108
35°	470	443	388	309	173	126	100	98	81
37.5°	460	441	381	294	167	114	104	79	54
40°	442	426	369	273	163	111	97	56	33
42.5°	416	409	350	249	151	106	83	34	14
45°	373	375	324	226	140	98	67	16	13
47.5°	338	339	297	197	116	83	51	12	11
50°	319	305	266	168	94	67	34	10	10
52.5°	285	271	236	143	69	51	21	9	9
55°	242	235	204	122	46	35	11	8	8
57.5°	200	201	177	106	27	18	8	7	7
60°	182	183	166	94	15	9	7	6	6
62.5°	170	172	160	93	10	7	6	5	5
65°	149	154	147	84	7	5	5	5	4
67.5°	132	136	131	74	5	5	4	4	4
70°	114	118	116	67	4	4	4	3	3
72.5°	97	101	100	59	4	4	3	3	3
75°	80	85	85	51	3	3	3	3	3
77.5°	66	69	69	43	2	3	2	2	2
80°	52	55	56	36	2	2	2	2	2
82.5°	41	43	44	29	2	2	1	1	1
85°	29	31	33	22	1	1	1	1	0
87.5°	20	21	23	15	1	1	1	0	0
90°	11	13	14	9	0	1	0	0	0
92.5°	0	1	3	1	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0

(END OF REPORT)