

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: H23442

Luminaire Tested: **H803E-810BA**

Issue Date: 3/3/2020



**Test Information**

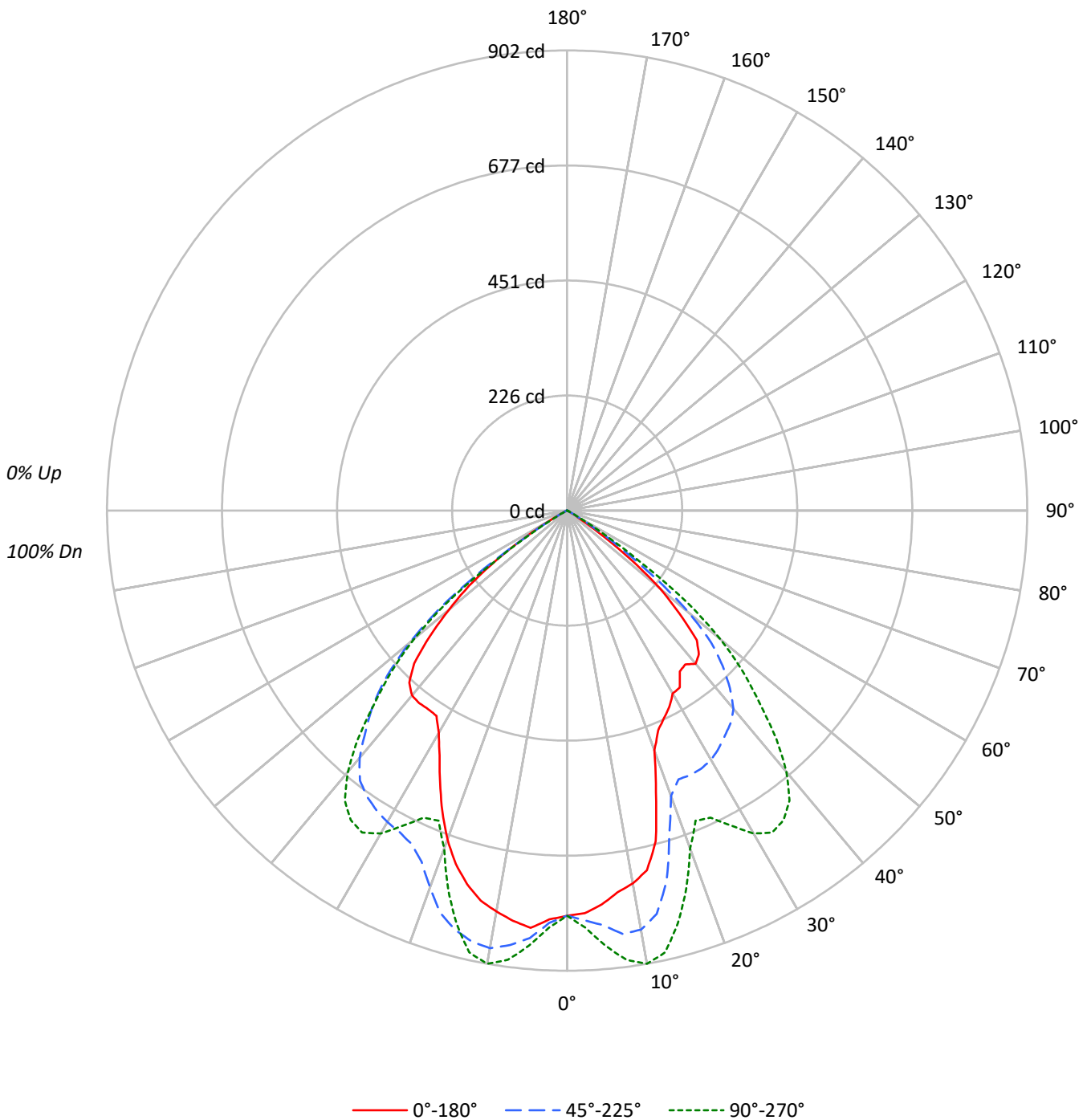
Test Method: LM-46-04  
Report Number: H23442  
Test Lab: Peachtree City  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H803E-810BA  
Description: HALO 8 IN FLUORESCENT RECESSED DOWNLIGHT  
WITH SPECULAR REFLECTOR WITH BLACK BAFFLE TRIM  
Light Source: TWO 4 PIN DTT COMPACT FLUORESCENT LAMPS  
TWO CFQ26WG24D/827 26WATTS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1800 (2 lamps)  
Luminaire Lumens: 1474.7 lumens  
Efficiency: 41.0%  
Efficacy: 32.1 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 1.43 / 1.33  
Luminous Opening: Circular (Dia: 0.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 46  
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	49	49	49	49	48	48	48	48	46	46	46	44	44	44	42	42	42	41
1	46	45	43	42	45	44	43	42	42	41	40	40	40	39	39	38	38	37
2	43	40	38	37	42	40	38	36	38	37	35	37	36	35	36	35	34	33
3	40	37	34	32	39	36	34	32	35	33	31	34	32	31	33	31	30	30
4	37	33	30	28	36	33	30	28	32	30	28	31	29	27	30	28	27	26
5	35	30	27	25	34	30	27	25	29	27	25	28	26	24	28	26	24	23
6	32	28	25	22	32	27	24	22	27	24	22	26	24	22	25	23	22	21
7	30	25	22	20	29	25	22	20	24	22	20	24	22	20	23	21	20	19
8	28	23	20	18	28	23	20	18	23	20	18	22	20	18	22	19	18	17
9	26	22	19	17	26	21	18	17	21	18	16	20	18	16	20	18	16	16
10	25	20	17	15	24	20	17	15	19	17	15	19	17	15	19	17	15	14

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

	0°	90°	180°
0°	31979	31979	31979
5°	31333	34608	33193
10°	30346	36889	32636
15°	27979	34942	31606
20°	21430	30217	29403
25°	19953	29508	26175
30°	19254	33996	23393
35°	18930	36384	23355
40°	20610	35174	24869
45°	20448	30359	24151
50°	14850	24625	18986
55°	5266	12078	11867
60°	483	1933	3142
65°	286	381	572
70°	236	236	353
75°	156	311	311
80°	232	232	232
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	79.6	5.4	2.2
10°-20°	217.6	14.8	6.0
20°-30°	291.6	19.8	8.1
30°-40°	375.2	25.4	10.4
40°-50°	355.9	24.1	9.9
50°-60°	146.1	9.9	4.1
60°-70°	6.7	0.5	0.2
70°-80°	1.7	0.1	0.0
80°-90°	0.4	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°	588.7	39.9	16.4
0°-40°	963.9	65.4	26.8
0°-60°	1465.9	99.4	40.7
0°-90°	1474.7	100.0	41.0
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°	1474.7	100.0	41.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	794	794	794	794	794	
5°	775	816	856	841	821	73
15°	671	753	838	850	758	180
25°	449	572	664	721	589	208
35°	385	539	740	684	475	248
45°	359	431	533	538	424	260
55°	75	127	172	198	169	83
65°	3	3	4	5	6	3
75°	1	1	2	2	2	1
85°	0	0	0	0	0	0
90°	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°	794	794	794	794	794	794	794	794	794
2.5°	790	793	804	815	818	815	809	803	802
5°	775	789	816	845	856	853	841	827	821
7.5°	755	788	837	875	888	883	859	827	811
10°	742	782	834	882	902	900	871	825	798
12.5°	722	758	810	859	887	892	865	818	783
15°	671	700	753	800	838	857	850	806	758
17.5°	578	604	666	724	777	813	827	781	726
20°	500	526	595	651	705	761	786	743	686
22.5°	466	495	570	620	658	727	745	701	639
25°	449	484	572	626	664	723	721	663	589
27.5°	434	478	570	650	696	744	711	640	541
30°	414	476	564	672	731	756	705	626	503
32.5°	411	458	553	673	748	757	696	619	477
35°	385	428	539	658	740	741	684	605	475
37.5°	380	402	526	633	716	712	667	584	476
40°	392	384	507	591	669	668	633	556	473
42.5°	382	369	472	541	607	612	584	526	458
45°	359	344	431	489	533	548	538	481	424
47.5°	298	307	383	429	467	484	478	430	366
50°	237	246	312	361	393	410	404	361	303
52.5°	157	173	221	251	300	312	315	281	242
55°	75	99	127	142	172	183	198	186	169
57.5°	24	48	59	62	78	79	87	90	93
60°	6	16	17	21	24	27	27	33	39
62.5°	4	4	5	6	6	7	9	12	14
65°	3	3	3	4	4	5	5	6	6
67.5°	2	2	2	3	3	3	4	4	4
70°	2	2	2	2	2	3	3	3	3
72.5°	2	2	2	2	2	2	2	2	2
75°	1	1	1	1	2	2	2	2	2
77.5°	1	1	1	1	1	1	1	1	2
80°	1	1	1	1	1	1	1	1	1
82.5°	1	1	1	1	1	1	1	1	1
85°	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)