

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: H23482

Luminaire Tested: **H802E-810BA**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H23482
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H802E-810BA
Description: HALO 8 IN FLUORESCENT RECESSED DOWNLIGHT
WITH SPECULAR REFLECTOR AND BLACK BAFFLE
Light Source: TWO 4 PIN DTT COMPACT FLUORESCENT LAMPS
TWO CF18W/827 18WATTS
Ballast/Driver: -

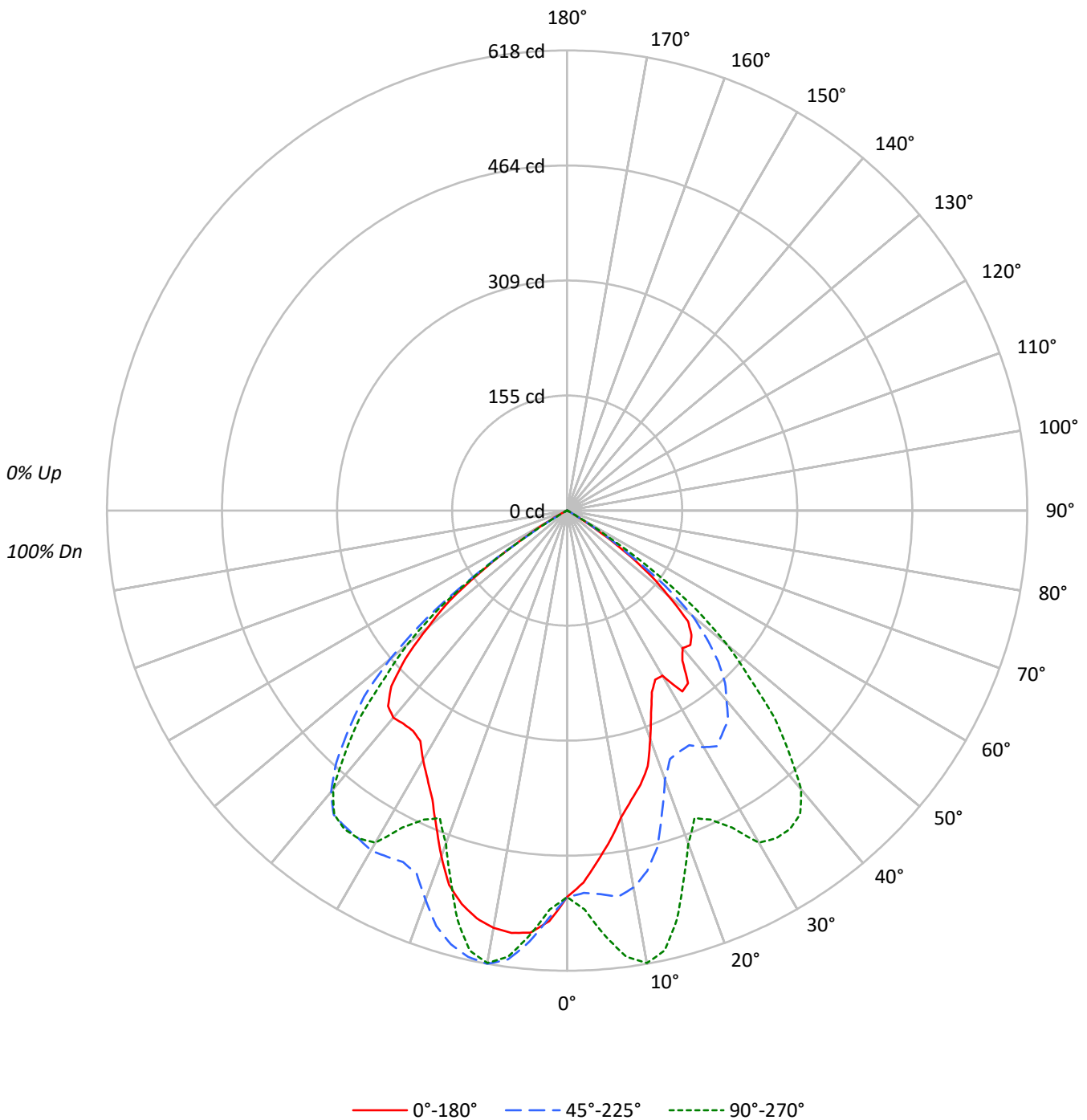
Summary

Lumens per Lamp: 1250 (2 lamps)
Luminaire Lumens: 1052.1 lumens
Efficiency: 42.1%
Efficacy: 31.9 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.52 / 1.39
Luminous Opening: Circular (Dia: 0.59' x H: 0')
CIE Type: Direct

Input Watts (W): 33
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										
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	50	30	10	0														
RCR																																						
0	50	50	50	50	49	49	49	49	47	47	47	45	45	45	43	43	43	42						42														
1	47	46	44	43	46	45	44	43	43	42	41	41	41	40	40	39	39	38						38														
2	44	41	39	37	43	41	39	37	39	38	36	38	37	35	37	36	35	34						34														
3	41	37	35	33	40	37	34	32	36	34	32	35	33	31	34	32	31	30						30														
4	38	34	31	29	37	33	31	29	32	30	28	32	29	28	31	29	27	27						27														
5	35	31	28	25	35	30	27	25	30	27	25	29	27	25	28	26	25	24						24														
6	33	28	25	23	32	28	25	23	27	24	22	26	24	22	26	24	22	21						21														
7	31	26	23	20	30	25	22	20	25	22	20	24	22	20	24	21	20	19						19														
8	29	24	20	18	28	23	20	18	23	20	18	22	20	18	22	20	18	17						17														
9	27	22	19	17	26	22	19	17	21	18	16	21	18	16	20	18	16	16						16														
10	25	20	17	15	25	20	17	15	20	17	15	19	17	15	19	17	15	14						14														

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	20176	20176	20176
5°	18419	22322	22205
10°	16501	24356	22461
15°	15334	22900	22015
20°	13487	19692	20437
25°	11539	19645	18359
30°	11492	23118	17372
35°	13431	24773	17132
40°	12230	24816	18422
45°	12975	21661	18363
50°	10644	16995	14757
55°	5761	9489	9014
60°	700	1166	2255
65°	184	276	368
70°	227	227	227
75°	150	150	150
80°	224	224	224
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	52.8	5.0	2.1
10°-20°	146.3	13.9	5.9
20°-30°	199.9	19.0	8.0
30°-40°	271.3	25.8	10.9
40°-50°	263.0	25.0	10.5
50°-60°	112.7	10.7	4.5
60°-70°	4.6	0.4	0.2
70°-80°	1.3	0.1	0.1
80°-90°	0.3	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°	399.1	37.9	16.0
0°-40°	670.4	63.7	26.8
0°-60°	1046.0	99.4	41.8
0°-90°	1052.1	100.0	42.1
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°	1052.1	100.0	42.1

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	519	519	519	519	519	
5°	472	517	572	581	569	43
15°	381	468	569	603	547	106
25°	269	357	458	521	428	127
35°	283	364	522	519	361	168
45°	236	287	394	414	334	175
55°	85	99	140	148	133	77
65°	2	2	3	3	4	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	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°	519	519	519	519	519	519	519	519	519
2.5°	500	505	514	526	536	544	547	552	552
5°	472	485	517	550	572	582	581	578	569
7.5°	446	469	523	572	604	616	608	592	572
10°	418	447	514	580	617	630	618	600	569
12.5°	398	426	496	564	605	624	614	602	561
15°	381	409	468	519	569	600	603	595	547
17.5°	360	380	424	470	520	566	585	578	527
20°	326	344	384	430	476	528	556	548	494
22.5°	294	314	361	407	447	500	528	513	459
25°	269	294	357	404	458	508	521	496	428
27.5°	256	285	355	415	480	535	524	490	406
30°	256	294	367	436	515	556	527	484	387
32.5°	288	327	375	442	522	553	522	481	367
35°	283	327	364	430	522	550	519	472	361
37.5°	254	307	355	414	514	536	515	459	361
40°	241	301	333	386	489	509	493	441	363
42.5°	245	298	314	347	441	463	459	419	356
45°	236	286	287	309	394	417	414	390	334
47.5°	220	258	254	265	331	366	370	349	295
50°	176	217	219	226	281	304	310	292	244
52.5°	137	162	165	169	219	232	239	221	199
55°	85	100	99	101	140	142	148	145	133
57.5°	35	46	49	46	63	61	61	69	69
60°	9	12	15	13	15	15	14	22	29
62.5°	3	4	4	4	4	4	5	7	9
65°	2	2	2	3	3	3	3	4	4
67.5°	2	2	2	2	2	2	2	3	3
70°	2	2	2	2	2	2	2	2	2
72.5°	1	1	1	1	1	2	2	2	2
75°	1	1	1	1	1	1	1	1	1
77.5°	1	1	1	1	1	1	1	1	1
80°	1	1	1	1	1	1	1	1	1
82.5°	1	0	0	0	0	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)