

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: H23486

Luminaire Tested: **H800E-810WB**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H23486
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H800E-810WB
Description: HALO 8 IN FLUORESCENT RECESSED DOWNLIGHT
WITH SPECULAR REFLECTOR AND WHITE COILEX BAFFLE
Light Source: TWO 4 PIN DTT COMPACT FLUORESCENT LAMPS
TWO CF13W/827 13WATTS
Ballast/Driver: -

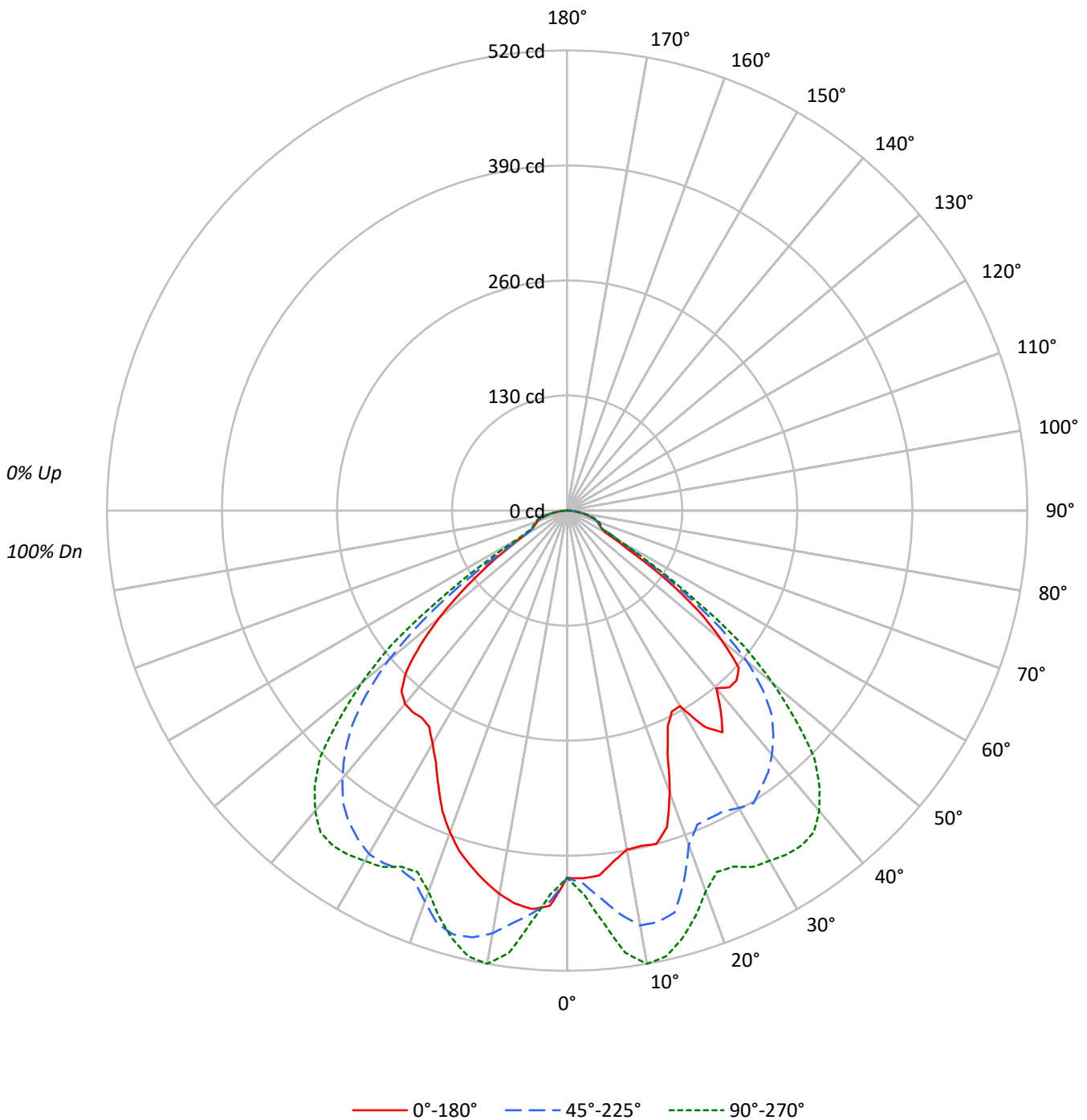
Summary

Lumens per Lamp: 900 (2 lamps)
Luminaire Lumens: 1070.9 lumens
Efficiency: 59.5%
Efficacy: 38.2 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.64 / 1.49
Luminous Opening: Circular (Dia: 0.59' x H: 0')
CIE Type: Direct

Input Watts (W): 28
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	71	71	71	71	69	69	69	69	66	66	66	63	63	63	61	61	61	59
1	66	64	62	60	64	62	60	59	60	58	57	58	56	55	55	54	53	52
2	61	57	53	51	59	56	53	50	54	51	49	52	50	48	50	48	47	46
3	56	51	47	43	55	50	46	43	48	45	42	47	44	42	45	43	41	40
4	52	46	41	38	51	45	41	37	44	40	37	42	39	36	41	38	36	35
5	48	41	37	33	47	41	36	33	39	35	32	38	35	32	37	34	32	31
6	45	37	33	29	44	37	32	29	36	32	29	35	31	29	34	31	28	27
7	42	34	29	26	41	34	29	26	33	29	26	32	28	26	31	28	25	24
8	39	31	27	23	38	31	26	23	30	26	23	29	26	23	29	25	23	22
9	36	29	24	21	35	28	24	21	28	24	21	27	23	21	27	23	21	20
10	34	27	22	19	33	26	22	19	26	22	19	25	22	19	25	21	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	16133	16133	16133
5°	16156	18224	17639
10°	15356	20527	17369
15°	15696	20164	16783
20°	14024	18948	16010
25°	11539	19045	14756
30°	11447	20514	13646
35°	14522	21926	13573
40°	13296	22481	14463
45°	14899	21716	14129
50°	13789	18325	11431
55°	9489	12132	7591
60°	3888	4976	4199
65°	3771	3955	3771
70°	4092	4433	4092
75°	4055	4506	4055
80°	3806	4030	3806
85°	2676	3122	2676



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	43.7	4.1	2.4
10°-20°	130.2	12.2	7.2
20°-30°	186.7	17.4	10.4
30°-40°	244.4	22.8	13.6
40°-50°	248.4	23.2	13.8
50°-60°	136.5	12.7	7.6
60°-70°	43.1	4.0	2.4
70°-80°	29.7	2.8	1.7
80°-90°	8.1	0.8	0.5
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°	360.7	33.7	20.0
0°-40°	605.1	56.5	33.6
0°-60°	990.0	92.4	55.0
0°-90°	1070.9	100.0	59.5
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°	1070.9	100.0	59.5

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	415	415	415	415	415	
5°	414	440	467	457	452	39
15°	390	470	501	496	417	107
25°	269	383	444	447	344	128
35°	306	382	462	430	286	179
45°	271	327	395	344	257	203
55°	140	159	179	148	112	122
65°	41	42	43	42	41	41
75°	27	28	30	28	27	29
85°	6	7	7	7	6	7
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°	415	415	415	415	415	415	415	415	415
2.5°	416	420	422	429	434	438	442	446	447
5°	414	422	440	458	467	464	457	457	452
7.5°	400	414	460	493	504	492	470	460	448
10°	389	416	476	512	520	508	485	463	440
12.5°	388	417	476	513	516	508	494	469	429
15°	390	413	470	499	501	505	496	470	417
17.5°	375	396	439	464	481	498	489	462	404
20°	339	355	402	430	458	487	470	445	387
22.5°	296	332	384	418	442	471	452	423	368
25°	269	324	383	418	444	463	447	405	344
27.5°	256	321	383	425	454	469	449	398	321
30°	255	321	388	432	457	473	448	392	304
32.5°	290	331	392	429	461	461	440	386	290
35°	306	321	382	428	462	452	430	376	286
37.5°	285	306	373	428	458	441	416	360	287
40°	262	290	360	416	443	421	395	339	285
42.5°	271	280	345	398	422	395	372	316	277
45°	271	268	327	373	395	368	344	290	257
47.5°	263	252	300	335	350	334	308	259	225
50°	228	222	265	292	303	289	264	218	189
52.5°	189	188	219	246	252	235	210	171	149
55°	140	140	159	171	179	167	148	124	112
57.5°	82	92	105	110	114	98	86	79	78
60°	50	61	67	66	64	57	53	50	54
62.5°	44	44	48	46	45	44	44	44	45
65°	41	41	42	43	43	42	42	41	41
67.5°	38	38	39	40	40	40	39	39	38
70°	36	36	37	38	39	39	38	37	36
72.5°	33	33	33	35	35	35	34	33	33
75°	27	28	28	29	30	30	28	27	27
77.5°	22	22	23	24	24	24	23	22	22
80°	17	17	17	18	18	18	17	17	17
82.5°	11	12	12	12	13	13	12	11	11
85°	6	7	7	7	7	7	7	6	6
87.5°	2	2	2	2	3	3	3	2	2
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)