

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: H23437

Luminaire Tested: **H803E-804P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H23437
Test Lab: Peachtree City
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H803E-804P
Description: HALO 8 IN FLUORESCENT RECESSED DOWNLIGHT
WITH SPECULAR REFLECTOR AND WHITE PAINTED TRIM WITH LOUVERS
Light Source: TWO 4 PIN DTT COMPACT FLUORESCENT LAMPS
TWO CFQ26WG24D/827 26WATTS
Ballast/Driver: -

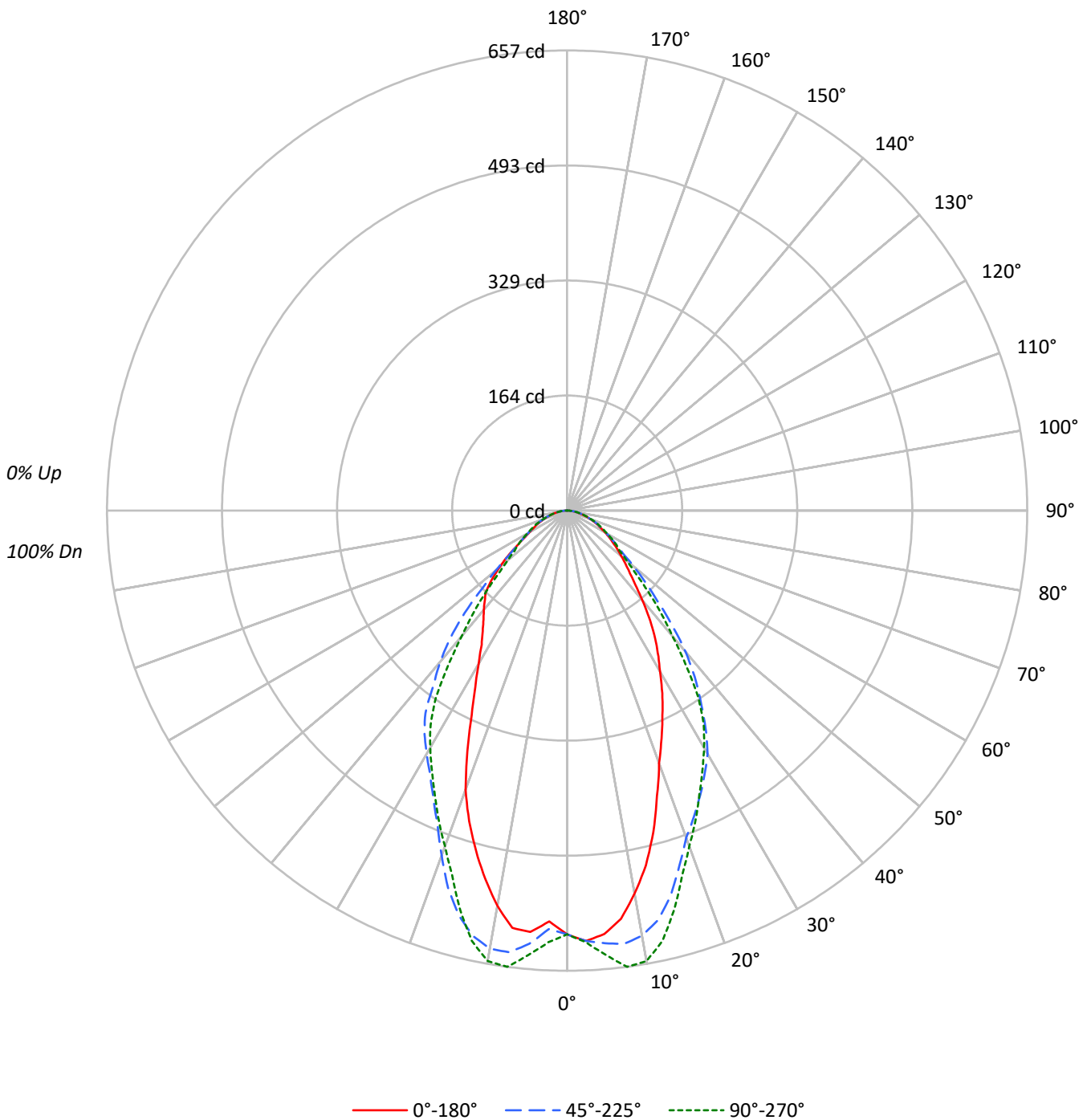
Summary

Lumens per Lamp: 1800 (2 lamps)
Luminaire Lumens: 894.5 lumens
Efficiency: 24.8%
Efficacy: 18.6 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.01 / 1.09
Luminous Opening: Circular (Dia: 0.56' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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	30	30	30	30	29	29	29	29	28	28	28	26	26	26	25	25	25	25	25	25	25	25	25	25														
1	28	27	26	25	27	26	25	25	25	25	24	24	24	23	23	23	23	23	23	23	23	23	22															
2	26	24	23	22	25	24	22	21	23	22	21	22	21	20	21	21	20	21	21	20	21	21	19															
3	24	22	20	19	23	21	20	19	21	19	18	20	19	18	19	19	18	19	19	18	19	19	17															
4	22	20	18	17	22	20	18	17	19	18	16	18	17	16	18	17	16	18	17	16	18	17	16															
5	21	18	16	15	20	18	16	15	17	16	15	17	16	15	17	15	14	17	15	14	17	15	14															
6	19	17	15	13	19	16	15	13	16	14	13	16	14	13	15	14	13	15	14	13	15	14	13															
7	18	15	14	12	18	15	13	12	15	13	12	15	13	12	14	13	12	14	13	12	14	13	12															
8	17	14	12	11	17	14	12	11	14	12	11	14	12	11	13	12	11	13	12	11	13	12	11															
9	16	13	12	10	16	13	11	10	13	11	10	13	11	10	12	11	10	12	11	10	12	11	10															
10	15	12	11	10	15	12	11	10	12	11	10	12	10	9	12	10	9	12	10	9	12	10	9															

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	26205	26205	26205
5°	26392	27697	26262
10°	24411	28721	25202
15°	21300	26457	22556
20°	17700	23508	19544
25°	15389	21363	15389
30°	13254	19556	12654
35°	11474	17291	11104
40°	9443	13231	10461
45°	7780	9985	10046
50°	6806	7480	8491
55°	6041	6494	6570
60°	5458	5718	5371
65°	4920	5227	4920
70°	4433	4686	4433
75°	3849	4184	4017
80°	3492	3742	3742
85°	2982	3479	3479



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	59.2	6.6	1.6
10°-20°	156.5	17.5	4.3
20°-30°	194.3	21.7	5.4
30°-40°	189.3	21.2	5.3
40°-50°	133.6	14.9	3.7
50°-60°	78.6	8.8	2.2
60°-70°	48.9	5.5	1.4
70°-80°	26.2	2.9	0.7
80°-90°	7.8	0.9	0.2
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°	410.0	45.8	11.4
0°-40°	599.3	67.0	16.6
0°-60°	811.5	90.7	22.5
0°-90°	894.5	100.0	24.8
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°	894.5	100.0	24.8

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	605	605	605	605	605	
5°	607	620	637	621	604	56
15°	475	570	590	598	503	131
25°	322	449	447	452	322	148
35°	217	332	327	353	210	135
45°	127	182	163	207	164	100
55°	80	87	86	87	87	72
65°	48	50	51	50	48	47
75°	23	25	25	25	24	25
85°	6	7	7	7	7	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°	605	605	605	605	605	605	605	605	605
2.5°	615	614	615	617	617	609	598	589	587
5°	607	609	620	632	637	633	621	607	604
7.5°	588	598	624	648	657	650	636	615	601
10°	555	578	616	644	653	651	635	601	573
12.5°	519	550	599	627	629	632	622	580	539
15°	475	515	570	590	590	598	598	553	503
17.5°	427	477	532	548	546	561	565	522	465
20°	384	441	497	507	510	520	524	486	424
22.5°	352	411	473	481	479	484	484	443	372
25°	322	385	449	456	447	456	452	403	322
27.5°	294	356	425	435	418	428	424	369	284
30°	265	326	401	413	391	400	401	344	253
32.5°	241	294	368	382	363	365	379	321	227
35°	217	263	332	339	327	330	353	295	210
37.5°	192	233	299	287	279	286	313	270	196
40°	167	204	263	241	234	238	282	243	185
42.5°	144	178	221	204	198	203	247	217	174
45°	127	153	182	170	163	171	207	189	164
47.5°	113	130	151	140	132	141	164	157	146
50°	101	111	123	120	111	123	133	126	126
52.5°	90	96	100	104	95	104	104	102	107
55°	80	83	87	87	86	88	87	84	87
57.5°	71	72	75	76	76	75	75	72	72
60°	63	63	65	66	66	65	64	62	62
62.5°	54	54	56	57	58	56	56	54	54
65°	48	49	50	50	51	50	50	48	48
67.5°	41	42	43	44	44	43	43	41	41
70°	35	35	36	37	37	37	36	35	35
72.5°	29	29	30	31	31	31	31	29	29
75°	23	24	25	25	25	25	25	24	24
77.5°	18	19	19	20	20	20	20	19	19
80°	14	14	15	15	15	15	15	15	15
82.5°	10	10	11	11	11	11	11	11	11
85°	6	6	7	7	7	7	7	7	7
87.5°	3	3	3	4	4	4	4	4	4
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)