

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: H23492

Luminaire Tested: **H800E-804**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-46-04  
Report Number: H23492  
Test Lab: PEACHTREE CITY  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H800E-804  
Description: HALO 8 IN FLUORESCENT RECESSED DOWNLIGHT  
WITH SPECULAR REFLECTOR AND CROSS LOUVERED TRIM  
Light Source: TWO 4 PIN DTT COMPACT FLUORESCENT LAMPS  
TWO CF13W/827 13WATTS  
Ballast/Driver: -

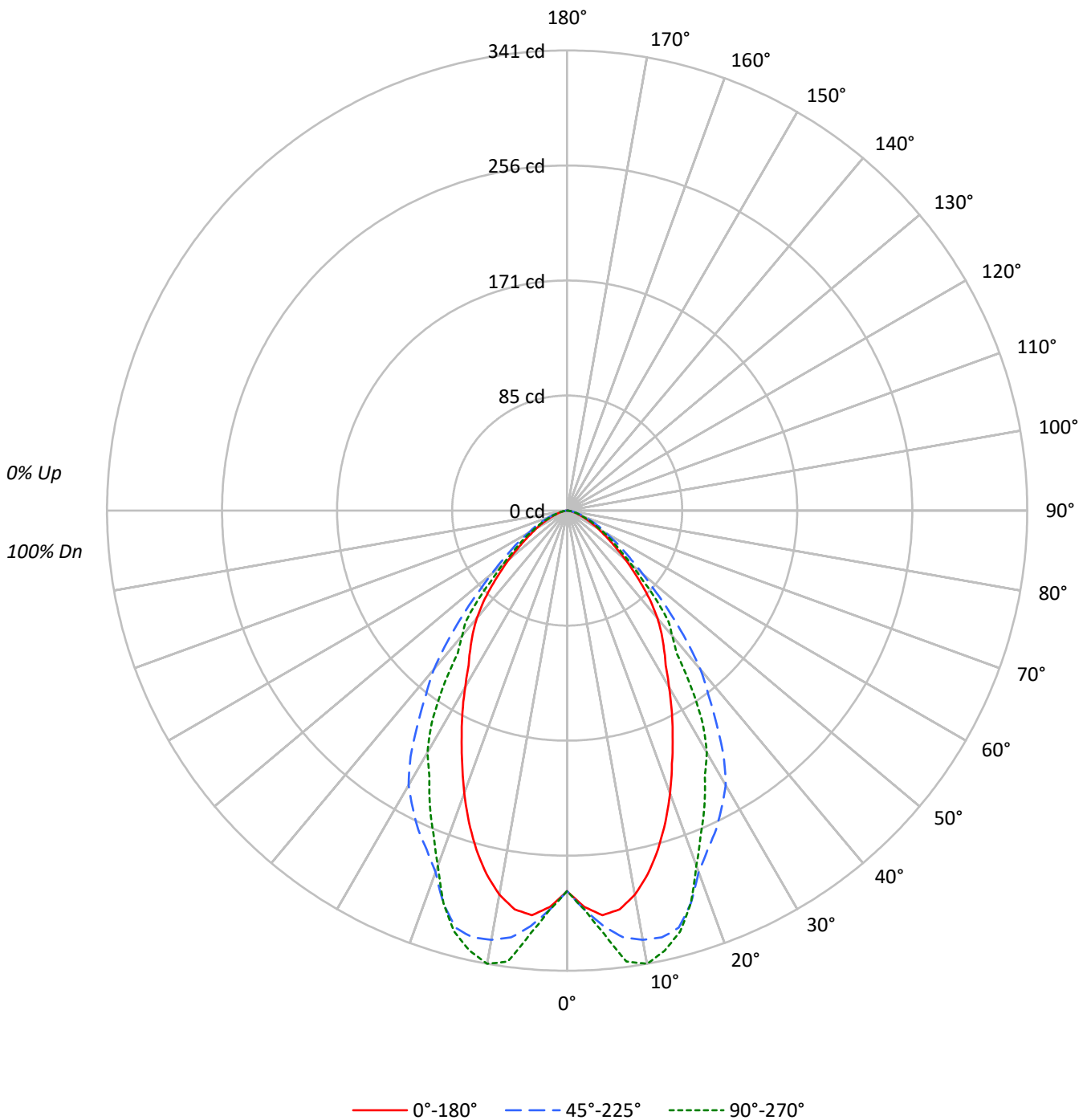
**Summary**

Lumens per Lamp: 900 (2 lamps)  
Luminaire Lumens: 473.6 lumens  
Efficiency: 26.3%  
Efficacy: 17.5 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 1.12 / 1.17  
Luminous Opening: Circular (Dia: 0.56' x H: 0')  
CIE Type: Direct

Input Watts (W): 27  
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	31	31	31	31	31	31	31	31	29	29	29	28	28	28	27	27	27	26
1	29	28	28	27	29	28	27	26	27	26	26	26	25	25	25	25	24	24
2	27	26	24	23	27	25	24	23	24	23	23	24	23	22	23	22	22	21
3	26	23	22	20	25	23	22	20	22	21	20	22	21	20	21	20	19	19
4	24	21	20	18	23	21	19	18	20	19	18	20	19	18	19	18	17	17
5	22	20	18	16	22	19	17	16	19	17	16	18	17	16	18	17	16	15
6	21	18	16	15	20	18	16	15	17	16	14	17	15	14	17	15	14	14
7	20	17	15	13	19	16	15	13	16	14	13	16	14	13	15	14	13	13
8	18	15	13	12	18	15	13	12	15	13	12	15	13	12	14	13	12	12
9	17	14	12	11	17	14	12	11	14	12	11	14	12	11	13	12	11	11
10	16	13	12	10	16	13	11	10	13	11	10	13	11	10	13	11	10	10

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

	0°	45°	90°
0°	12215	12215	12215
5°	13088	13435	13696
10°	12711	14206	14998
15°	11659	14350	14484
20°	10279	13137	12906
25°	8842	12474	11518
30°	7552	11754	10353
35°	6610	10205	8513
40°	5881	8708	6842
45°	4839	6677	5697
50°	3774	4919	4178
55°	2870	3776	3247
60°	2252	2859	2512
65°	1742	2357	2050
70°	1266	1773	1520
75°	1004	1339	1171
80°	748	998	748
85°	497	497	497



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	29.8	6.3	1.7
10°-20°	84.4	17.8	4.7
20°-30°	108.7	23.0	6.0
30°-40°	105.2	22.2	5.8
40°-50°	75.1	15.9	4.2
50°-60°	41.1	8.7	2.3
60°-70°	20.3	4.3	1.1
70°-80°	7.8	1.7	0.4
80°-90°	1.3	0.3	0.1
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°	222.9	47.1	12.4
0°-40°	328.1	69.3	18.2
0°-60°	444.2	93.8	24.7
0°-90°	473.6	100.0	26.3
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°	473.6	100.0	26.3

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	282	282	282	282	282	
5°	301	305	309	313	315	28
15°	260	281	320	326	323	72
25°	185	222	261	250	241	85
35°	125	159	193	180	161	79
45°	79	92	109	101	93	61
55°	38	43	50	47	43	35
65°	17	19	23	21	20	17
75°	6	7	8	7	7	6
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	282	282	282	282	282
2.5°	294	295	296	296	296
5°	301	305	309	313	315
7.5°	298	306	319	332	337
10°	289	300	323	339	341
12.5°	276	291	324	337	334
15°	260	281	320	326	323
17.5°	242	267	305	307	305
20°	223	252	285	285	280
22.5°	203	236	272	265	259
25°	185	222	261	250	241
27.5°	168	207	248	237	221
30°	151	191	235	222	207
32.5°	136	175	216	205	187
35°	125	159	193	180	161
37.5°	115	143	172	154	133
40°	104	125	154	137	121
42.5°	92	108	131	120	111
45°	79	92	109	101	93
47.5°	67	76	89	85	75
50°	56	63	73	70	62
52.5°	46	52	60	57	51
55°	38	43	50	47	43
57.5°	31	35	41	38	36
60°	26	28	33	31	29
62.5°	21	23	28	25	24
65°	17	19	23	21	20
67.5°	13	15	18	17	15
70°	10	12	14	13	12
72.5°	8	9	11	10	9
75°	6	7	8	7	7
77.5°	4	5	6	5	5
80°	3	3	4	3	3
82.5°	2	2	2	2	2
85°	1	1	1	1	1
87.5°	0	0	0	0	0
90°	0	0	0	0	0

(END OF REPORT)