

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: H23493

Luminaire Tested: **H800E-804P**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-46-04  
Report Number: H23493  
Test Lab: PEACHTREE CITY  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H800E-804P  
Description: HALO 8 IN FLUORESCENT RECESSED DOWNLIGHT  
WITH SPECULAR REFLECTOR AND WHITE PAINTED CROSS LOUVERED TRIM  
Light Source: TWO 4 PIN DTT COMPACT FLUORESCENT LAMPS  
TWO CF13W/827 13WATTS  
Ballast/Driver: -

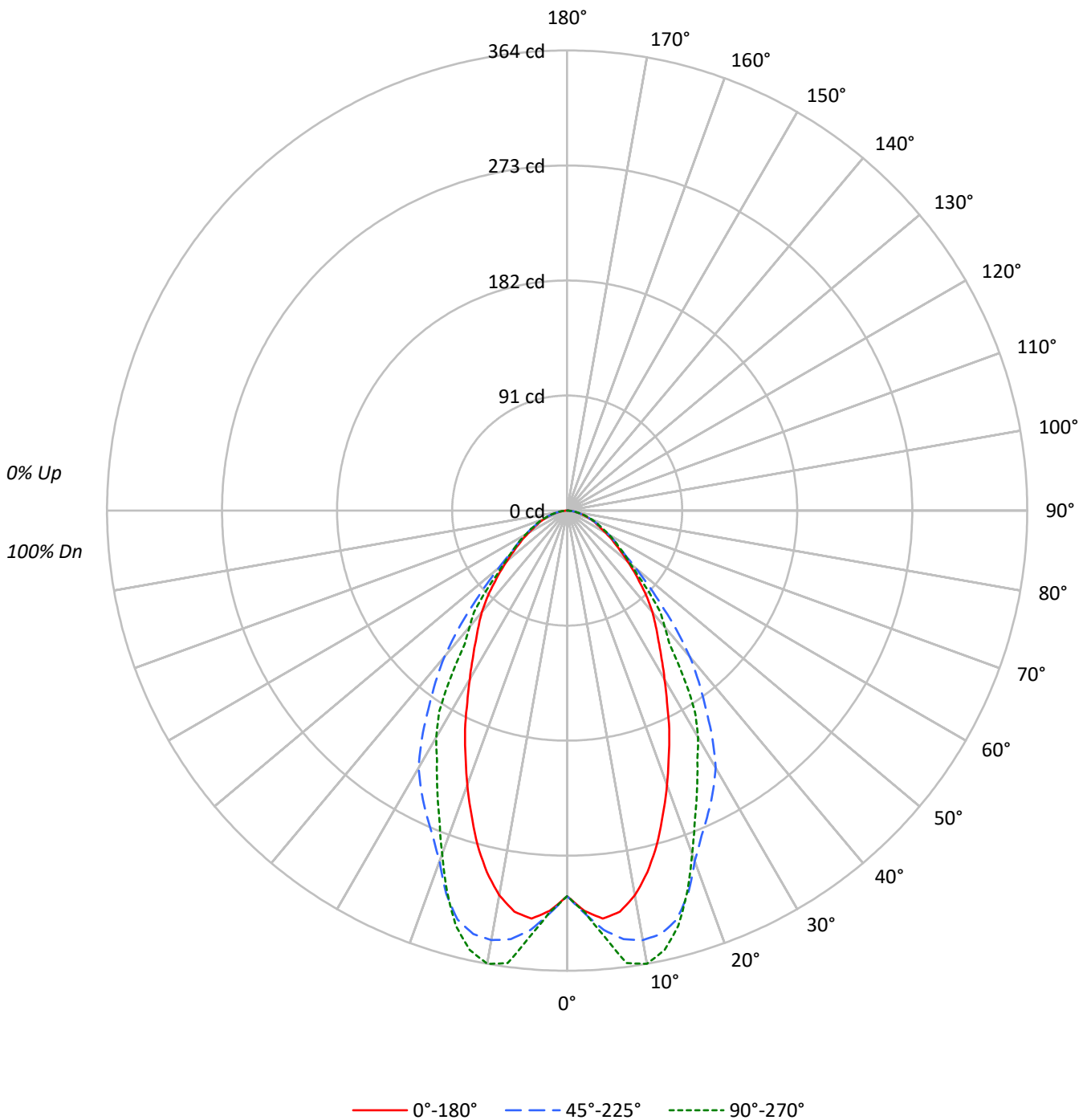
**Summary**

Lumens per Lamp: 900 (2 lamps)  
Luminaire Lumens: 501.0 lumens  
Efficiency: 27.8%  
Efficacy: 17.9 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1.06 / 1.13  
Luminous Opening: Circular (Dia: 0.56' 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	33	33	33	33	32	32	32	32	31	31	31	30	30	30	28	28	28	28
1	31	30	29	28	30	29	28	28	28	27	27	27	27	26	26	26	25	25
2	29	27	25	24	28	26	25	24	26	24	23	25	24	23	24	23	22	22
3	27	24	23	21	26	24	22	21	23	22	21	23	21	20	22	21	20	19
4	25	22	20	19	24	22	20	19	21	20	18	21	19	18	20	19	18	17
5	23	20	18	17	23	20	18	17	20	18	16	19	18	16	19	17	16	16
6	22	19	17	15	21	18	16	15	18	16	15	18	16	15	17	16	15	14
7	20	17	15	14	20	17	15	14	17	15	14	16	15	14	16	15	13	13
8	19	16	14	13	19	16	14	13	15	14	12	15	14	12	15	13	12	12
9	18	15	13	12	18	15	13	12	14	13	11	14	13	11	14	12	11	11
10	17	14	12	11	17	14	12	11	14	12	11	13	12	11	13	12	11	10

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

	0°	45°	90°
0°	13211	13211	13211
5°	14088	14479	14696
10°	13591	15174	16010
15°	12287	15022	15247
20°	10648	13598	13321
25°	9128	12617	11614
30°	7702	11754	10353
35°	6663	10100	8460
40°	5937	8538	6785
45°	5023	6432	5636
50°	4178	4784	4380
55°	3549	3776	3776
60°	3032	3292	3292
65°	2665	2870	2870
70°	2406	2533	2660
75°	2176	2176	2343
80°	1746	1996	1996
85°	1491	1491	1491



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	32.0	6.4	1.8
10°-20°	88.5	17.7	4.9
20°-30°	110.7	22.1	6.1
30°-40°	104.7	20.9	5.8
40°-50°	74.7	14.9	4.1
50°-60°	45.0	9.0	2.5
60°-70°	27.7	5.5	1.5
70°-80°	14.3	2.9	0.8
80°-90°	3.5	0.7	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°	231.1	46.1	12.8
0°-40°	335.8	67.0	18.7
0°-60°	455.5	90.9	25.3
0°-90°	501.0	100.0	27.8
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°	501.0	100.0	27.8

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	305	305	305	305	305	
5°	324	327	333	337	338	30
15°	274	295	335	342	340	76
25°	191	226	264	255	243	87
35°	126	158	191	179	160	79
45°	82	93	105	99	92	64
55°	47	48	50	51	50	42
65°	26	26	28	28	28	26
75°	13	13	13	14	14	14
85°	3	3	3	3	3	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	305	305	305	305	305
2.5°	317	317	319	318	318
5°	324	327	333	337	338
7.5°	320	327	342	356	361
10°	309	319	345	362	364
12.5°	293	308	343	357	356
15°	274	295	335	342	340
17.5°	252	279	318	319	316
20°	231	260	295	294	289
22.5°	210	242	278	272	264
25°	191	226	264	255	243
27.5°	171	210	250	239	223
30°	154	194	235	222	207
32.5°	139	175	214	204	188
35°	126	158	191	179	160
37.5°	115	142	171	151	133
40°	105	126	151	133	120
42.5°	94	108	128	118	109
45°	82	93	105	99	92
47.5°	72	77	86	84	76
50°	62	65	71	71	65
52.5°	54	55	58	60	57
55°	47	48	50	51	50
57.5°	41	41	44	44	44
60°	35	36	38	38	38
62.5°	30	31	33	33	33
65°	26	26	28	28	28
67.5°	23	23	24	25	25
70°	19	19	20	21	21
72.5°	16	16	17	17	17
75°	13	13	13	14	14
77.5°	10	10	10	11	11
80°	7	7	8	8	8
82.5°	5	5	5	5	5
85°	3	3	3	3	3
87.5°	1	1	1	1	1
90°	0	0	0	0	0

(END OF REPORT)