

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: H23483

Luminaire Tested: **H800E-800P**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-46-04  
Report Number: H23483  
Test Lab: PEACHTREE CITY  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H800E-800P  
Description: HALO 8 IN FLUORESCENT RECESSED DOWNLIGHT  
WITH SPECULAR REFLECTOR AND DIFFUSE REFRACTOR TRIM  
Light Source: TWO 4 PIN DTT COMPACT FLUORESCENT LAMPS  
TWO CF13W/827 13WATTS  
Ballast/Driver: -

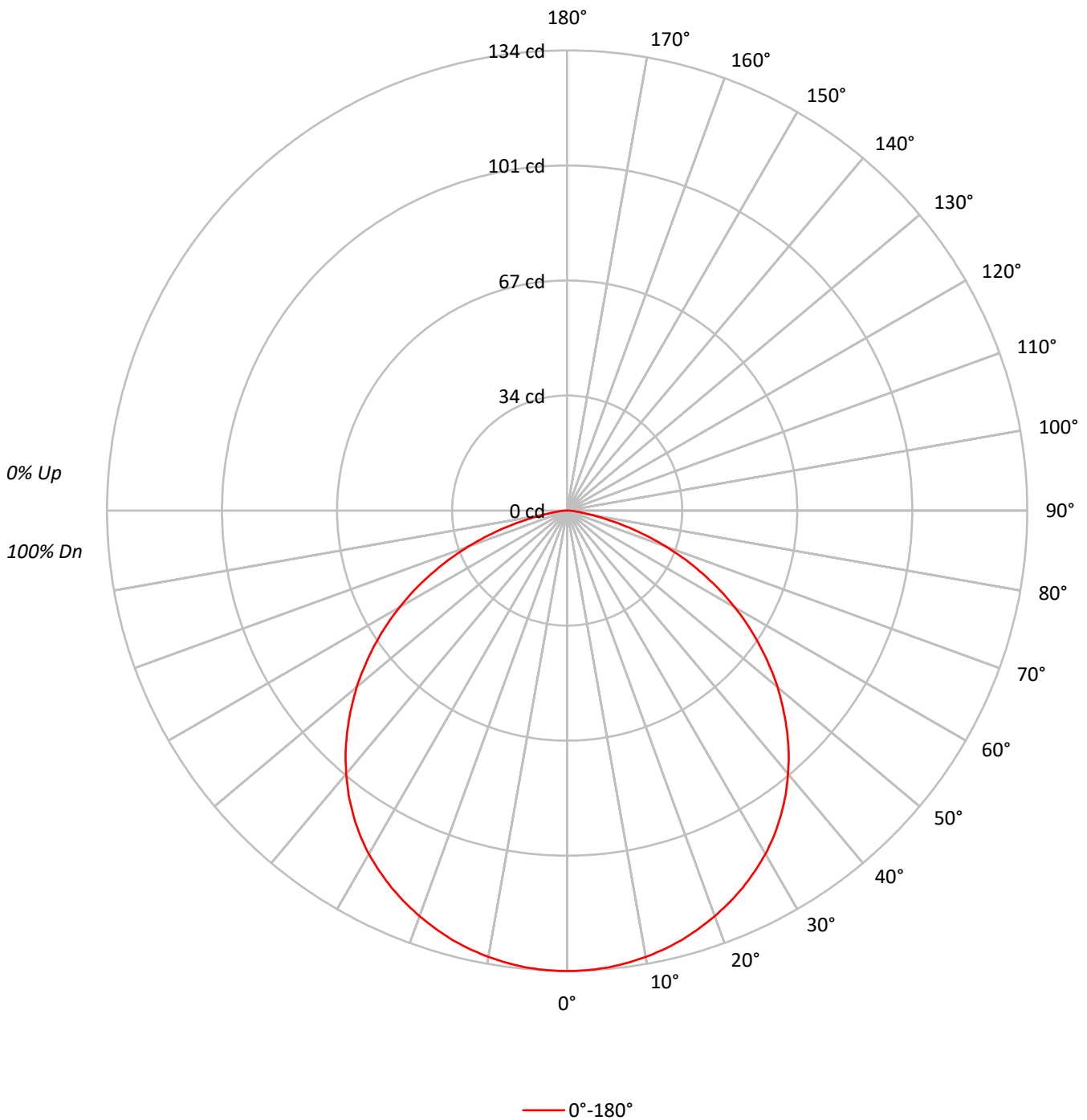
**Summary**

Lumens per Lamp: 900 (2 lamps)  
Luminaire Lumens: 368.6 lumens  
Efficiency: 20.5%  
Efficacy: 14.7 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.38  
Luminous Opening: Circular (Dia: 0.54' x H: 0')  
CIE Type: Direct

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

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

	0°
0°	6264
5°	6264
10°	6261
15°	6258
20°	6248
25°	6241
30°	6230
35°	6187
40°	6104
45°	5978
50°	5814
55°	5578
60°	5269
65°	4819
70°	4165
75°	3176
80°	1883
85°	1125



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	12.7	3.4	0.7
10°-20°	36.5	9.9	2.0
20°-30°	55.8	15.1	3.1
30°-40°	67.8	18.4	3.8
40°-50°	69.7	18.9	3.9
50°-60°	61.2	16.6	3.4
60°-70°	43.1	11.7	2.4
70°-80°	19.0	5.2	1.1
80°-90°	2.7	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°	105.0	28.5	5.8
0°-40°	172.9	46.9	9.6
0°-60°	303.8	82.4	16.9
0°-90°	368.6	100.0	20.5
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°	368.6	100.0	20.5

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	134	
5°	134	13
15°	129	37
25°	121	56
35°	108	68
45°	90	70
55°	68	61
65°	44	43
75°	18	19
85°	2	3
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	134.1
2.5°	134.0
5°	133.6
7.5°	132.9
10°	132.0
12.5°	130.8
15°	129.4
17.5°	127.6
20°	125.7
22.5°	123.5
25°	121.1
27.5°	118.4
30°	115.5
32.5°	112.2
35°	108.5
37.5°	104.5
40°	100.1
42.5°	95.5
45°	90.5
47.5°	85.3
50°	80.0
52.5°	74.3
55°	68.5
57.5°	62.6
60°	56.4
62.5°	50.1
65°	43.6
67.5°	37.2
70°	30.5
72.5°	24.0
75°	17.6
77.5°	11.8
80°	7.0
82.5°	3.7
85°	2.1
87.5°	0.8
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)