

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: H23480

Luminaire Tested: **H802E-800P**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-46-04  
Report Number: H23480  
Test Lab: PEACHTREE CITY  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H802E-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 CF18W/827 18WATTS  
Ballast/Driver: -

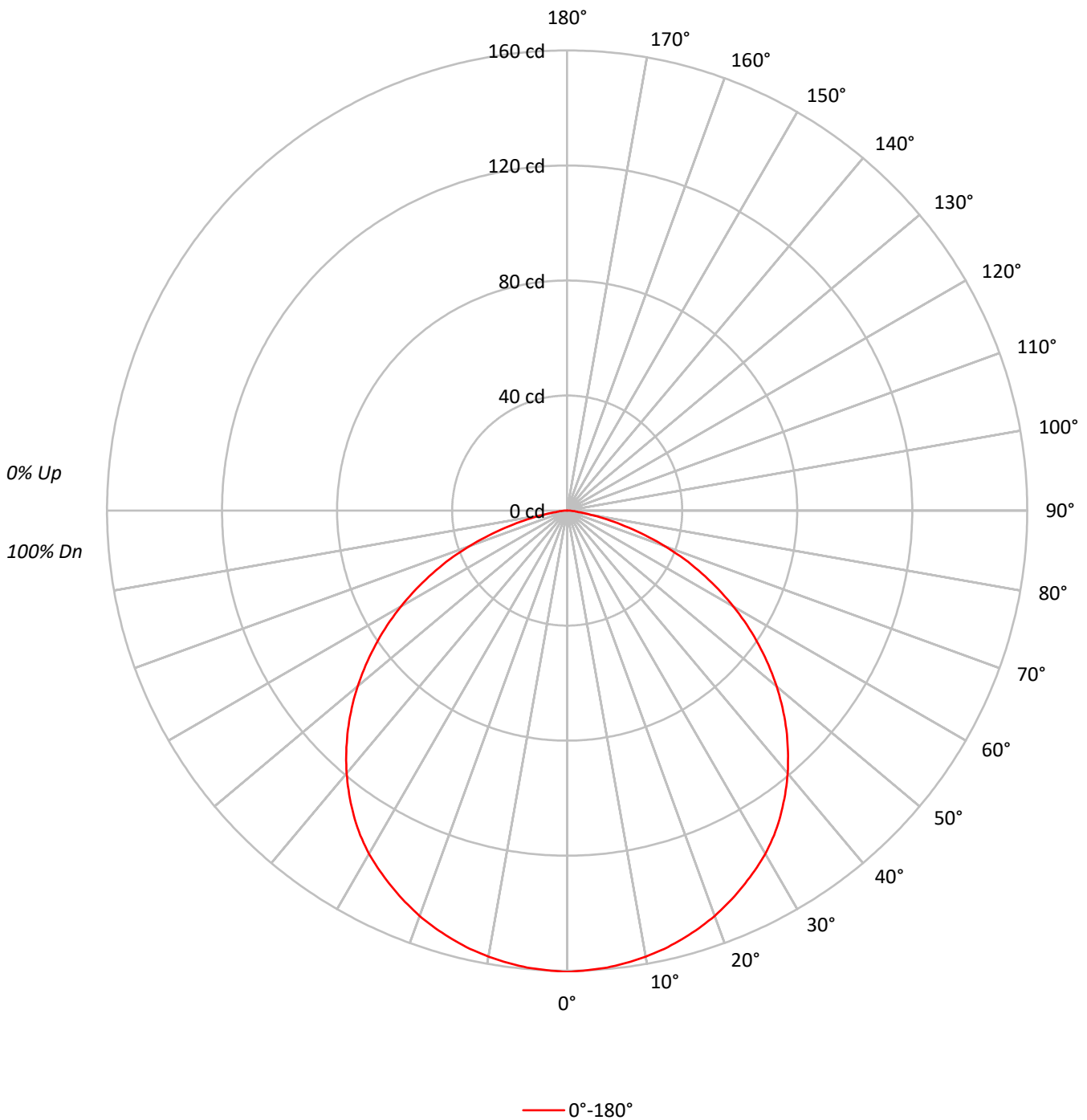
**Summary**

Lumens per Lamp: 1250 (2 lamps)  
Luminaire Lumens: 438.6 lumens  
Efficiency: 17.5%  
Efficacy: 15.1 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): 29  
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	21	21	21	21	20	20	20	20	19	19	19	19	19	19	18	18	18	18
1	19	18	18	17	19	18	17	17	17	17	16	17	16	16	16	16	15	15
2	18	16	15	14	17	16	15	14	15	14	14	15	14	13	14	13	13	13
3	16	14	13	12	16	14	13	12	13	12	11	13	12	11	13	12	11	11
4	15	13	11	10	14	12	11	10	12	11	10	12	10	10	11	10	9	9
5	13	11	10	9	13	11	10	9	11	9	8	10	9	8	10	9	8	8
6	12	10	9	8	12	10	9	7	10	8	7	9	8	7	9	8	7	7
7	12	9	8	7	11	9	8	7	9	7	7	9	7	7	8	7	6	6
8	11	8	7	6	10	8	7	6	8	7	6	8	7	6	8	7	6	5
9	10	8	6	5	10	8	6	5	7	6	5	7	6	5	7	6	5	5
10	9	7	6	5	9	7	6	5	7	6	5	7	6	5	7	5	5	4

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

	0°
0°	7492
5°	7479
10°	7470
15°	7462
20°	7456
25°	7437
30°	7432
35°	7379
40°	7274
45°	7121
50°	6911
55°	6621
60°	6241
65°	5714
70°	4930
75°	3772
80°	2179
85°	1393



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	15.2	3.5	0.6
10°-20°	43.6	9.9	1.7
20°-30°	66.6	15.2	2.7
30°-40°	80.9	18.4	3.2
40°-50°	83.1	18.9	3.3
50°-60°	72.6	16.6	2.9
60°-70°	51.1	11.6	2.0
70°-80°	22.5	5.1	0.9
80°-90°	3.2	0.7	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°	125.3	28.6	5.0
0°-40°	206.2	47.0	8.2
0°-60°	361.8	82.5	14.5
0°-90°	438.6	100.0	17.5
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°	438.6	100.0	17.5

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	160	
5°	160	15
15°	154	44
25°	144	67
35°	129	81
45°	108	83
55°	81	73
65°	52	51
75°	21	23
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	160.4
2.5°	160.0
5°	159.5
7.5°	158.6
10°	157.5
12.5°	156.1
15°	154.3
17.5°	152.3
20°	150.0
22.5°	147.3
25°	144.3
27.5°	141.2
30°	137.8
32.5°	133.9
35°	129.4
37.5°	124.5
40°	119.3
42.5°	113.7
45°	107.8
47.5°	101.6
50°	95.1
52.5°	88.3
55°	81.3
57.5°	74.2
60°	66.8
62.5°	59.3
65°	51.7
67.5°	44.1
70°	36.1
72.5°	28.4
75°	20.9
77.5°	14.1
80°	8.1
82.5°	3.9
85°	2.6
87.5°	1.1
90°	0.0

(END OF REPORT)