

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: H22515

Luminaire Tested: **H803E-800P**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-46-04  
Report Number: H22515  
Test Lab: Peachtree City  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H803E-800P  
Description: HALO 6 IN RECESSED FLUORESCENT DOWNLIGHT  
WITH PARTIALY PAINTED REFLECTOR AND ALBALITE LENS  
Light Source: TWO 4 PIN TTT COMPACT FLUORESCENT LAMPS  
TWO CF26DT/E/IN/827 26 WATTS  
Ballast/Driver: -

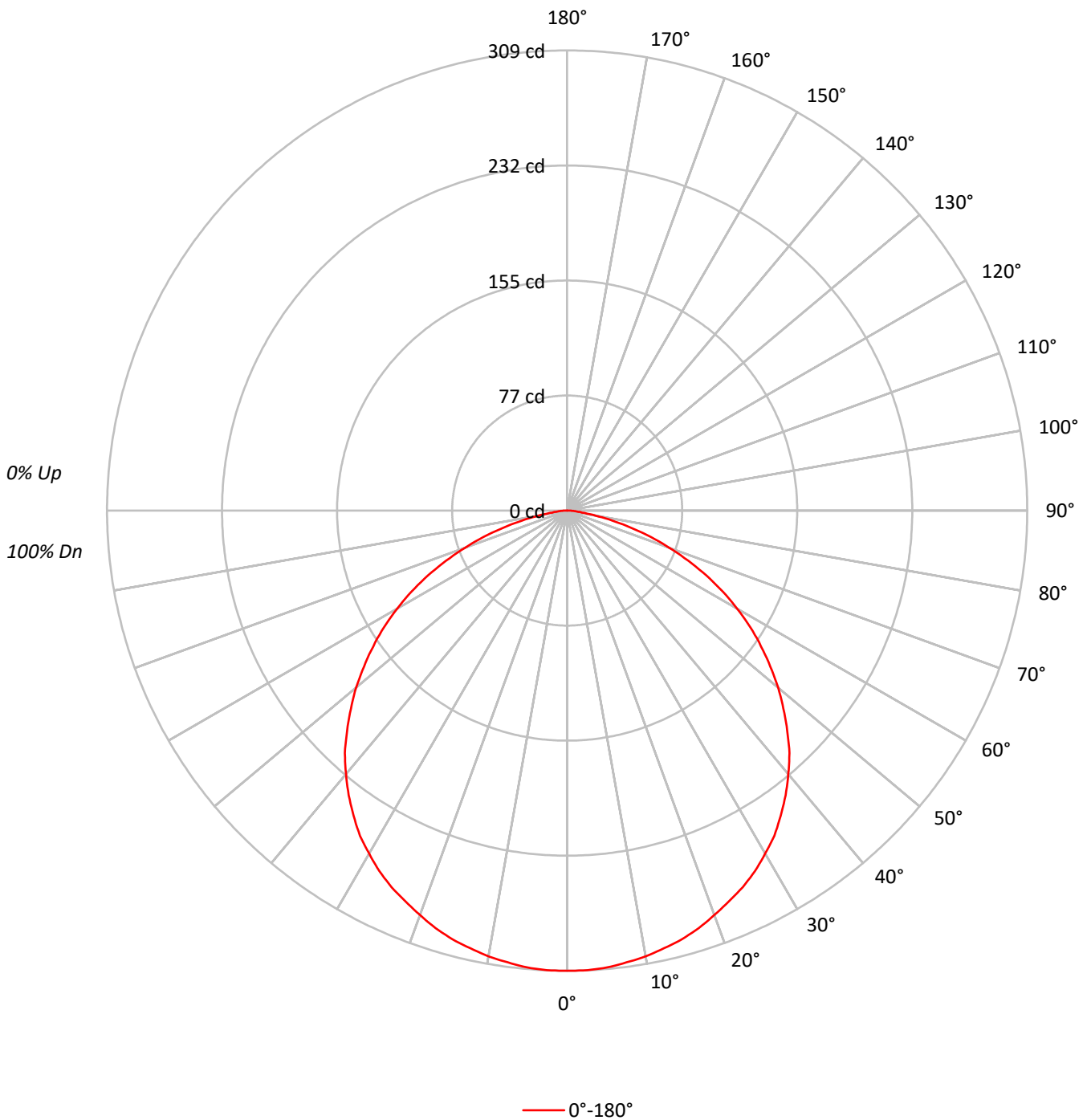
**Summary**

Lumens per Lamp: 1800 (2 lamps)  
Luminaire Lumens: 858.7 lumens  
Efficiency: 23.9%  
Efficacy: 15.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.39  
Luminous Opening: Circular (Dia: 0.54' x H: 0')  
CIE Type: Direct

Input Watts (W): 55  
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	28	28	28	28	28	28	28	28	27	27	27	25	25	25	24	24	24	24
1	26	25	24	23	25	24	24	23	23	23	22	23	22	21	22	21	21	20
2	24	22	20	19	23	21	20	19	21	19	18	20	19	18	19	18	18	17
3	22	19	17	16	21	19	17	16	18	17	15	18	16	15	17	16	15	14
4	20	17	15	13	19	17	15	13	16	14	13	16	14	13	15	14	13	12
5	18	15	13	12	18	15	13	12	14	13	11	14	12	11	14	12	11	11
6	17	14	12	10	16	13	12	10	13	11	10	13	11	10	12	11	10	9
7	16	12	10	9	15	12	10	9	12	10	9	12	10	9	11	10	9	8
8	15	11	9	8	14	11	9	8	11	9	8	11	9	8	10	9	8	7
9	14	10	8	7	13	10	8	7	10	8	7	10	8	7	9	8	7	7
10	13	10	8	6	12	9	8	6	9	8	6	9	7	6	9	7	6	6

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

	0°
0°	14434
5°	14442
10°	14419
15°	14411
20°	14366
25°	14380
30°	14347
35°	14256
40°	14086
45°	13806
50°	13444
55°	12949
60°	12332
65°	11384
70°	9970
75°	7941
80°	5111
85°	3216



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	29.3	3.4	0.8
10°-20°	84.1	9.8	2.3
20°-30°	128.5	15.0	3.6
30°-40°	156.4	18.2	4.3
40°-50°	161.2	18.8	4.5
50°-60°	142.1	16.5	3.9
60°-70°	101.7	11.8	2.8
70°-80°	47.4	5.5	1.3
80°-90°	7.9	0.9	0.2
90°-100°	0.1	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°	241.9	28.2	6.7
0°-40°	398.3	46.4	11.1
0°-60°	701.5	81.7	19.5
0°-90°	858.5	100.0	23.8
90°-120°	0.1	0.0	0.0
90°-150°	0.1	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	858.7	100.0	23.9

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	309	
5°	308	29
15°	298	84
25°	279	129
35°	250	156
45°	209	161
55°	159	142
65°	103	102
75°	44	47
85°	6	7
90°	1	1
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°	309
2.5°	309
5°	308
7.5°	306
10°	304
12.5°	301
15°	298
17.5°	294
20°	289
22.5°	284
25°	279
27.5°	273
30°	266
32.5°	259
35°	250
37.5°	241
40°	231
42.5°	221
45°	209
47.5°	197
50°	185
52.5°	172
55°	159
57.5°	146
60°	132
62.5°	118
65°	103
67.5°	88
70°	73
72.5°	59
75°	44
77.5°	31
80°	19
82.5°	10
85°	6
87.5°	3
90°	1
92.5°	0
95°	0
97.5°	0
100°	0
102.5°	0
105°	0
107.5°	0
110°	0



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**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)