

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: H23253

Luminaire Tested: **H803HP-800P**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-46-04  
Report Number: H23253  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H803HP-800P  
Description: HALO 8" DIA RECESSED DOWNLIGHT  
SPECULAR REFLECTOR WITH FROSTED LENS  
Light Source: (2) F26DTT 26 WATTS 1800 LUMENS EACH  
DOUBLE TWIN TUBE COMPACT FLUORESCENT  
Ballast/Driver: -

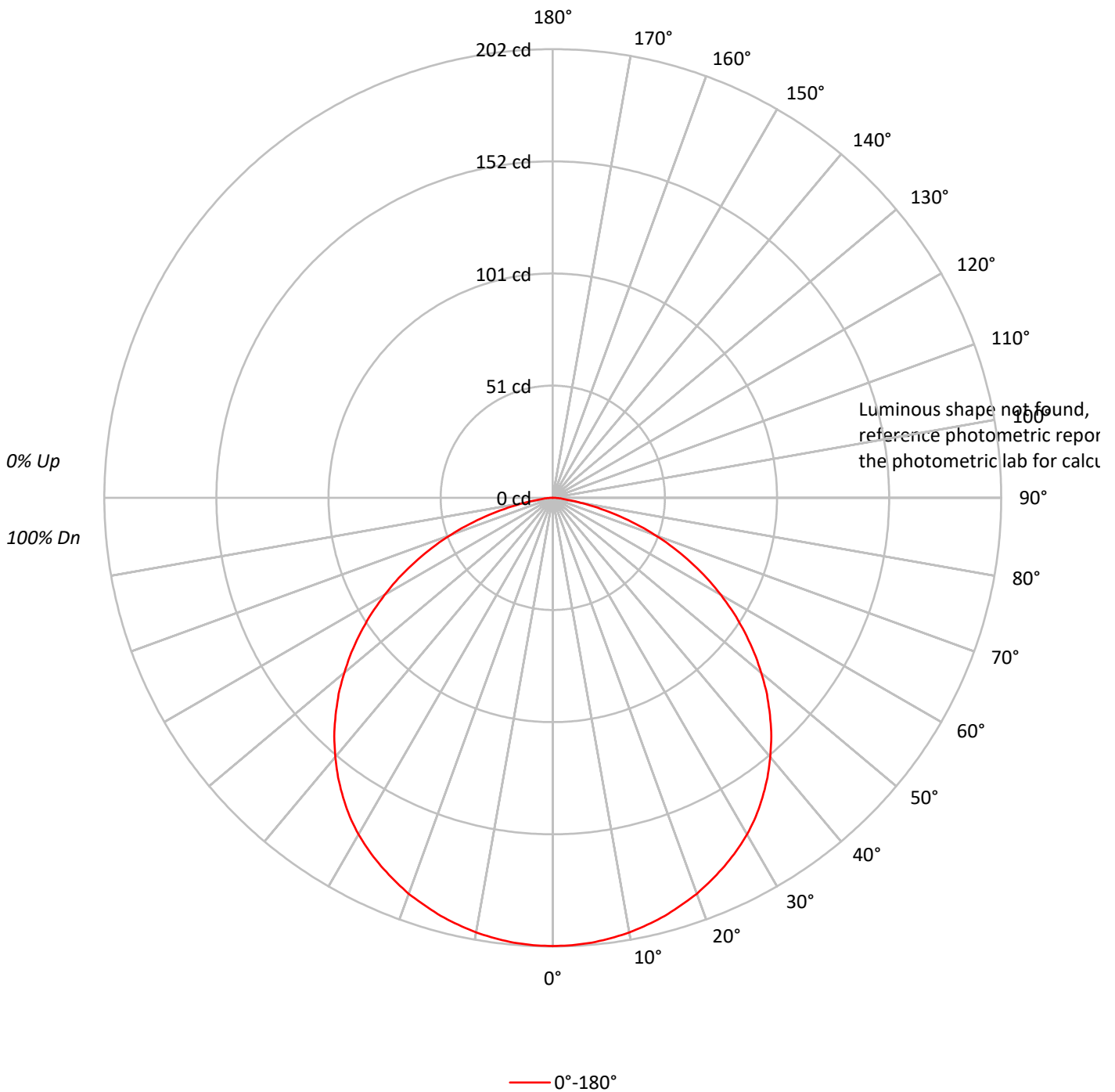
**Summary**

Lumens per Lamp: 1800 (2 lamps)  
Luminaire Lumens: 567.0 lumens  
Efficiency: 15.7%  
Efficacy: 11.6 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.39  
Luminous Opening: (L: 0 ' x W: -0.54 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 49  
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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	19	19	19	19	18	18	18	18	17	17	17	17	17	17	16	16	16	16	16	16	16
1	17	17	16	15	17	16	16	15	15	15	15	15	14	14	14	14	14	14	14	14	13
2	16	14	13	13	15	14	13	12	14	13	12	13	12	12	13	12	12	13	12	12	11
3	14	13	11	10	14	12	11	10	12	11	10	12	11	10	11	10	10	11	10	10	9
4	13	11	10	9	13	11	10	9	11	10	9	10	9	9	10	9	8	10	9	8	8
5	12	10	9	8	12	10	9	8	10	8	7	9	8	7	9	8	7	9	8	7	7
6	11	9	8	7	11	9	8	7	9	7	7	8	7	6	8	7	6	8	7	6	6
7	10	8	7	6	10	8	7	6	8	7	6	8	7	6	7	6	6	7	6	6	5
8	10	7	6	5	9	7	6	5	7	6	5	7	6	5	7	6	5	7	6	5	5
9	9	7	6	5	9	7	6	5	7	5	5	6	5	5	6	5	5	6	5	5	4
10	8	6	5	4	8	6	5	4	6	5	4	6	5	4	6	5	4	6	5	4	4

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	19.1	3.4	0.5
10°-20°	55.0	9.7	1.5
20°-30°	84.4	14.9	2.3
30°-40°	103.0	18.2	2.9
40°-50°	106.6	18.8	3.0
50°-60°	94.2	16.6	2.6
60°-70°	67.7	11.9	1.9
70°-80°	31.7	5.6	0.9
80°-90°	5.2	0.9	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°	158.5	28.0	4.4
0°-40°	261.5	46.1	7.3
0°-60°	462.3	81.5	12.8
0°-90°	567.0	100.0	15.7
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°	567.0	100.0	15.7

**CANDELA DISTRIBUTION:**

0°	Flux
0°	202
5°	201
15°	195
25°	183
35°	165
45°	138
55°	106
65°	68
75°	30
85°	4
90°	0
95°	0
105°	0
115°	0
125°	0
135°	0
145°	0
155°	0
165°	0
175°	0
180°	0



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	201.8
2.5°	201.6
5°	201.1
7.5°	200.0
10°	198.7
12.5°	196.9
15°	194.9
17.5°	192.3
20°	189.7
22.5°	186.4
25°	183.0
27.5°	179.2
30°	175.0
32.5°	170.2
35°	164.7
37.5°	158.8
40°	152.4
42.5°	145.7
45°	138.3
47.5°	130.8
50°	122.6
52.5°	114.3
55°	105.5
57.5°	96.7
60°	87.4
62.5°	78.2
65°	68.5
67.5°	58.9
70°	49.0
72.5°	39.3
75°	29.7
77.5°	20.6
80°	12.8
82.5°	6.6
85°	3.9
87.5°	2.2
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)