

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: H23319

Luminaire Tested: **H800HP-803P**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-46-04  
Report Number: H23319  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H800HP-803P  
Description: HALO 8" DIA RECESSED DOWNLIGHT  
SPECULAR REFLECTOR WITH FRESNEL GLASS LENS  
Light Source: (2) F13TT 13 WATTS 900 LUMENS EACH  
TWIN TUBE COMPACT FLUORESCENT  
Ballast/Driver: -

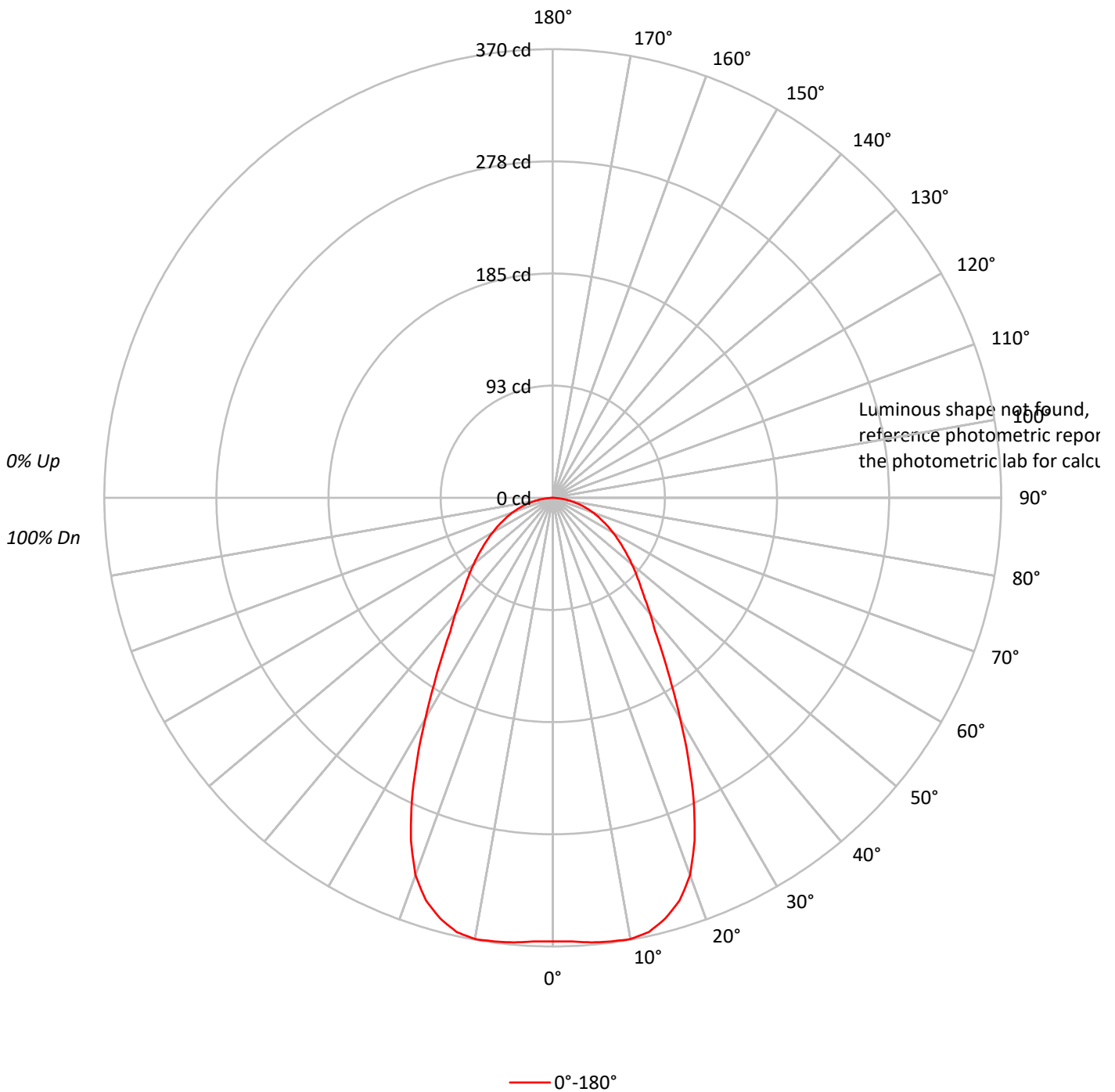
**Summary**

Lumens per Lamp: 900 (2 lamps)  
Luminaire Lumens: 581.3 lumens  
Efficiency: 32.3%  
Efficacy: 18.2 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.97  
Luminous Opening: (L: 0 ' x W: -0.53 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 32  
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	38	38	38	38	38	38	38	38	36	36	36	34	34	34	33	33	33	32
1	36	34	33	32	35	34	33	32	32	31	31	31	30	30	30	29	29	28
2	33	31	29	27	32	30	28	27	29	28	26	28	27	26	27	26	25	25
3	31	28	25	24	30	27	25	23	26	24	23	25	24	23	25	23	22	22
4	28	25	23	21	28	25	22	21	24	22	20	23	21	20	23	21	20	19
5	27	23	20	18	26	23	20	18	22	20	18	21	19	18	21	19	18	17
6	25	21	18	17	24	21	18	17	20	18	16	20	18	16	19	17	16	16
7	23	19	17	15	23	19	17	15	19	17	15	18	16	15	18	16	15	14
8	22	18	16	14	21	18	15	14	17	15	14	17	15	14	17	15	14	13
9	21	17	14	13	20	17	14	13	16	14	13	16	14	13	16	14	13	12
10	19	16	13	12	19	15	13	12	15	13	12	15	13	12	15	13	12	11

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	35.2	6.1	2.0
10°-20°	100.4	17.3	5.6
20°-30°	124.8	21.5	6.9
30°-40°	100.5	17.3	5.6
40°-50°	79.5	13.7	4.4
50°-60°	63.2	10.9	3.5
60°-70°	45.4	7.8	2.5
70°-80°	26.1	4.5	1.4
80°-90°	6.3	1.1	0.3
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°	260.4	44.8	14.5
0°-40°	360.9	62.1	20.0
0°-60°	503.5	86.6	28.0
0°-90°	581.3	100.0	32.3
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°	581.3	100.0	32.3

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	366	
5°	368	35
15°	359	100
25°	275	125
35°	158	100
45°	102	79
55°	70	63
65°	45	45
75°	25	26
85°	4	6
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°	365.9
2.5°	366.2
5°	368.1
7.5°	369.0
10°	369.5
12.5°	366.7
15°	359.1
17.5°	348.1
20°	331.1
22.5°	305.7
25°	274.9
27.5°	241.8
30°	210.1
32.5°	181.9
35°	158.5
37.5°	138.6
40°	125.1
42.5°	112.0
45°	102.0
47.5°	93.4
50°	85.2
52.5°	77.6
55°	70.3
57.5°	63.6
60°	57.3
62.5°	51.5
65°	45.4
67.5°	40.6
70°	35.1
72.5°	29.9
75°	24.9
77.5°	19.2
80°	14.7
82.5°	9.9
85°	4.2
87.5°	1.7
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)