

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: H23311

Luminaire Tested: **H802HP-800P**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-46-04  
Report Number: H23311  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H802HP-800P  
Description: HALO 8" DIA RECESSED DOWNLIGHT  
SPECULAR REFLECTOR WITH FROSTED GLASS LENS  
Light Source: (2) F18DTT 18 WATTS 1250 LUMENS EACH  
DOUBLE TWIN TUBE COMPACT FLUORESCENT  
Ballast/Driver: -

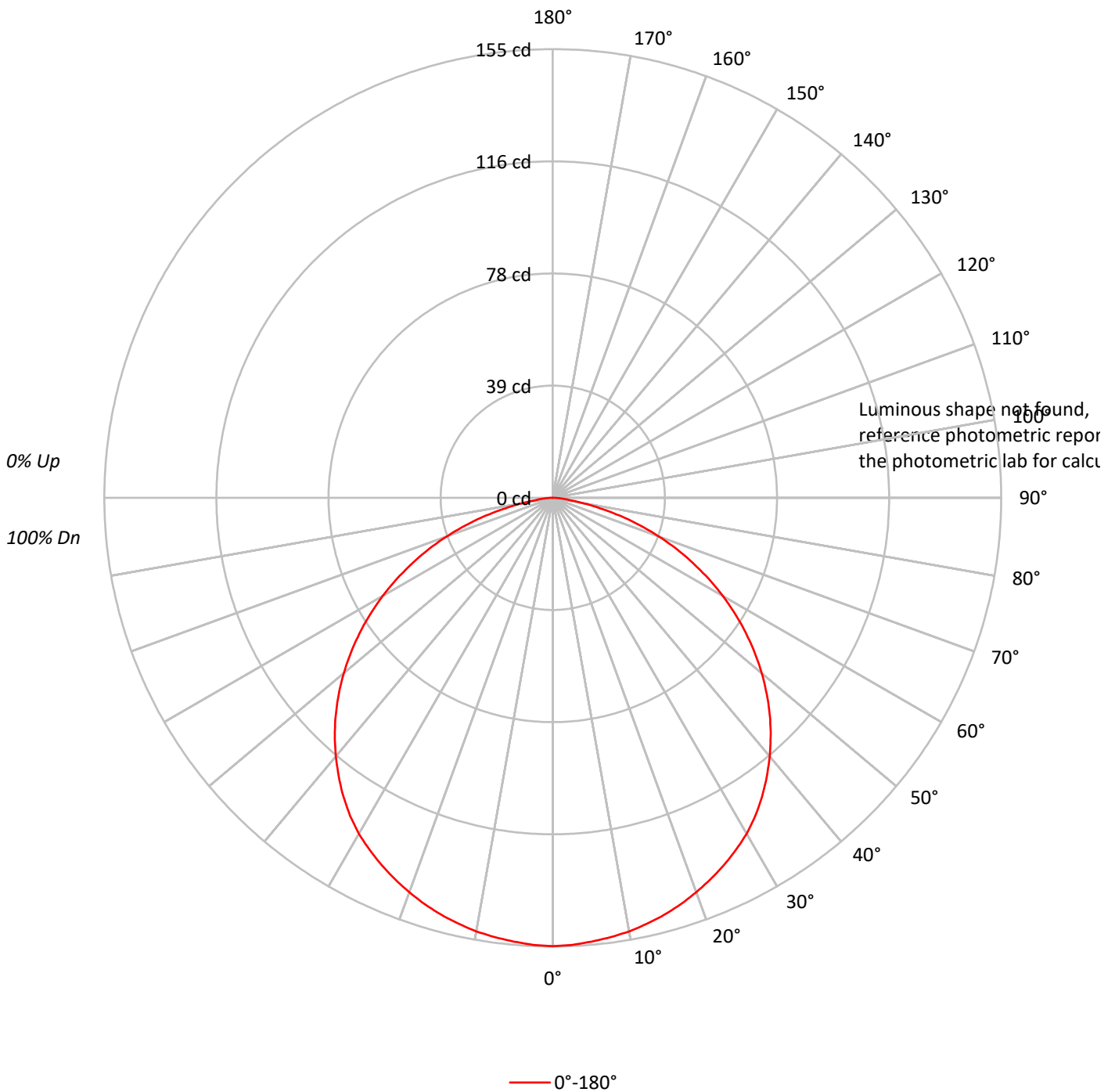
**Summary**

Lumens per Lamp: 1250 (2 lamps)  
Luminaire Lumens: 437.6 lumens  
Efficiency: 17.5%  
Efficacy: 8.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.39  
Luminous Opening: (L: 0 ' x W: -0.54 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 51  
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

TEST NUMBER: H23311  
CATALOG NUMBER: H802HP-800P

### Luminous Intensity Polar Plot



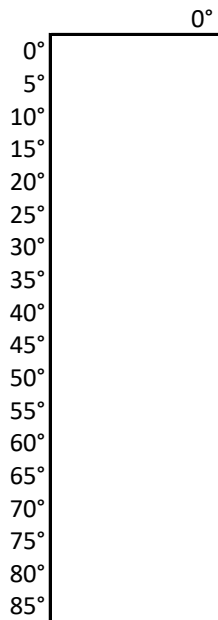


TEST NUMBER: H23311  
 CATALOG NUMBER: H802HP-800P

**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	17	16	15	14	17	16	15	14	15	14	13	14	14	13	14	13	13	12
3	16	14	13	12	15	14	12	11	13	12	11	13	12	11	12	12	11	10
4	15	12	11	10	14	12	11	10	12	11	10	11	10	9	11	10	9	9
5	13	11	10	8	13	11	9	8	11	9	8	10	9	8	10	9	8	8
6	12	10	8	7	12	10	8	7	10	8	7	9	8	7	9	8	7	7
7	11	9	8	6	11	9	7	6	9	7	6	8	7	6	8	7	6	6
8	11	8	7	6	10	8	7	6	8	7	6	8	7	6	7	6	6	5
9	10	8	6	5	10	7	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	5	5	6	5	5	4

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





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 CATALOG NUMBER: H802HP-800P

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	14.6	3.3	0.6
10°-20°	42.1	9.6	1.7
20°-30°	64.6	14.8	2.6
30°-40°	78.8	18.0	3.2
40°-50°	81.7	18.7	3.3
50°-60°	72.8	16.6	2.9
60°-70°	53.0	12.1	2.1
70°-80°	25.6	5.9	1.0
80°-90°	4.4	1.0	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°	121.3	27.7	4.9
0°-40°	200.1	45.7	8.0
0°-60°	354.6	81.0	14.2
0°-90°	437.6	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°	437.6	100.0	17.5

**CANDELA DISTRIBUTION:**

0°	Flux
0°	155
5°	154
15°	149
25°	140
35°	126
45°	106
55°	82
65°	54
75°	24
85°	3
90°	0
95°	0
105°	0
115°	0
125°	0
135°	0
145°	0
155°	0
165°	0
175°	0
180°	0



TEST NUMBER: H23311  
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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	154.9
2.5°	154.6
5°	153.9
7.5°	153.1
10°	152.1
12.5°	150.7
15°	149.1
17.5°	147.2
20°	145.0
22.5°	142.6
25°	140.0
27.5°	137.1
30°	134.0
32.5°	130.3
35°	126.1
37.5°	121.5
40°	116.6
42.5°	111.5
45°	106.1
47.5°	100.3
50°	94.3
52.5°	88.0
55°	81.5
57.5°	74.8
60°	67.9
62.5°	60.8
65°	53.6
67.5°	46.4
70°	38.9
72.5°	31.6
75°	24.2
77.5°	16.7
80°	10.8
82.5°	5.7
85°	3.3
87.5°	1.9
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)