

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: H23477

Luminaire Tested: **H802E-801P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H23477
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H802E-801P
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: -

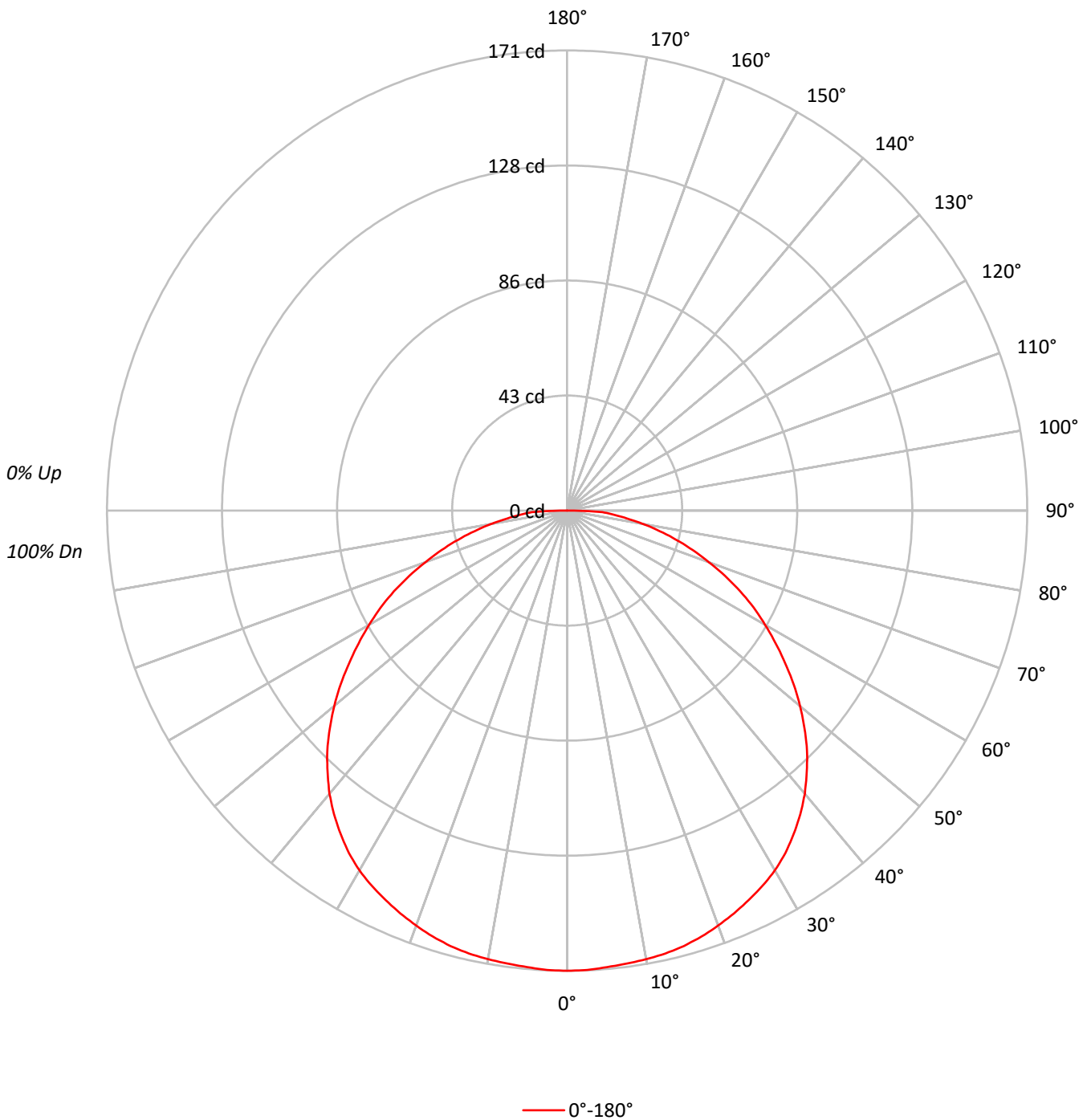
Summary

Lumens per Lamp: 1250 (2 lamps)
Luminaire Lumens: 547.5 lumens
Efficiency: 21.9%
Efficacy: 18.2 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.44
Luminous Opening: Vertical Cylinder (Dia: 0.54' x H: 0.08')
CIE Type: Direct

Input Watts (W): 30
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: H23477
CATALOG NUMBER: H802E-801P

Luminous Intensity Polar Plot





TEST NUMBER: H23477
 CATALOG NUMBER: H802E-801P

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	26	26	26	26	25	25	25	25	24	24	24	23	23	23	22	22	22	22
1	24	22	21	21	23	22	21	20	21	20	20	20	20	19	19	19	18	18
2	21	19	18	17	21	19	18	16	18	17	16	18	17	16	17	16	15	15
3	19	17	15	14	19	17	15	14	16	15	13	15	14	13	15	14	13	12
4	18	15	13	11	17	15	13	11	14	13	11	14	12	11	13	12	11	10
5	16	13	11	10	16	13	11	10	13	11	10	12	11	10	12	10	9	9
6	15	12	10	9	15	12	10	9	11	10	8	11	10	8	11	9	8	8
7	14	11	9	8	14	11	9	7	10	9	7	10	9	7	10	8	7	7
8	13	10	8	7	13	10	8	7	9	8	7	9	8	7	9	8	7	6
9	12	9	7	6	12	9	7	6	9	7	6	8	7	6	8	7	6	5
10	11	8	7	5	11	8	7	5	8	6	5	8	6	5	8	6	5	5

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7988
5°	7851
10°	7762
15°	7696
20°	7614
25°	7542
30°	7482
35°	7361
40°	7195
45°	6966
50°	6657
55°	6294
60°	5929
65°	5526
70°	4972
75°	4379
80°	3645
85°	2813



TEST NUMBER: H23477
 CATALOG NUMBER: H802E-801P

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	16.2	3.0	0.6
10°-20°	47.3	8.6	1.9
20°-30°	73.7	13.5	2.9
30°-40°	91.8	16.8	3.7
40°-50°	97.1	17.7	3.9
50°-60°	88.6	16.2	3.5
60°-70°	70.1	12.8	2.8
70°-80°	44.5	8.1	1.8
80°-90°	18.2	3.3	0.7
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°	137.3	25.1	5.5
0°-40°	229.1	41.8	9.2
0°-60°	414.7	75.7	16.6
0°-90°	547.5	100.0	21.9
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°	547.5	100.0	21.9

CANDELA DISTRIBUTION:

	0°	Flux
0°	171	
5°	170	16
15°	168	47
25°	160	74
35°	147	92
45°	126	97
55°	99	89
65°	71	70
75°	42	44
85°	17	18
90°	0	



TEST NUMBER: H23477
CATALOG NUMBER: H802E-801P

CANDELA DISTRIBUTION (FULL):

	0°
0°	171.0
2.5°	170.9
5°	170.3
7.5°	169.8
10°	169.3
12.5°	168.6
15°	167.5
17.5°	166.0
20°	164.1
22.5°	162.0
25°	159.7
27.5°	157.2
30°	154.4
32.5°	150.9
35°	146.8
37.5°	142.3
40°	137.4
42.5°	131.8
45°	126.1
47.5°	119.6
50°	113.0
52.5°	106.1
55°	98.9
57.5°	91.9
60°	85.0
62.5°	78.2
65°	71.0
67.5°	63.5
70°	56.0
72.5°	49.0
75°	42.0
77.5°	35.2
80°	28.6
82.5°	22.5
85°	17.0
87.5°	13.1
90°	0.0

(END OF REPORT)