

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: H23479

Luminaire Tested: **H800E-801P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H23479
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H800E-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 CF13W/827 13WATTS
Ballast/Driver: -

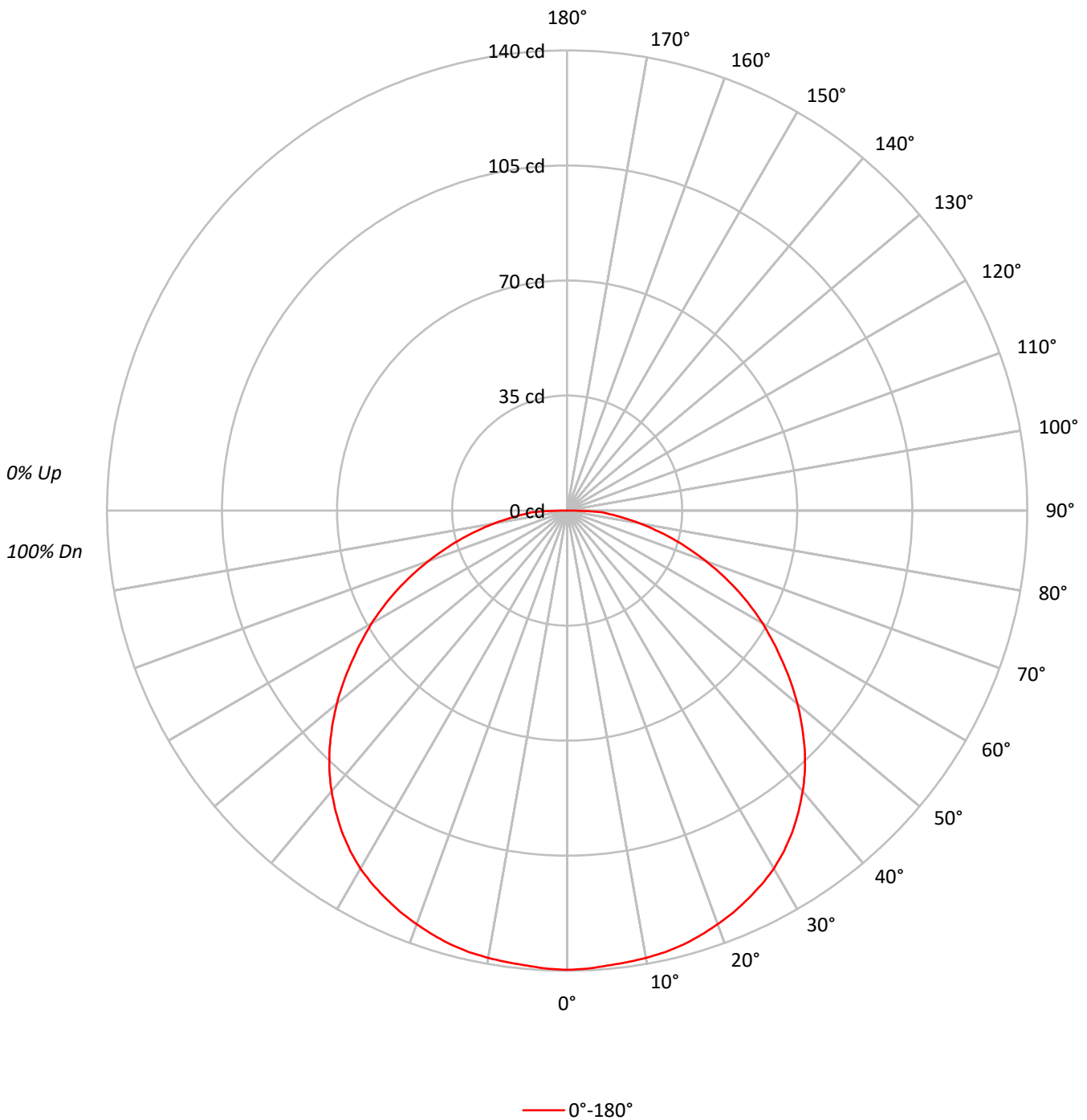
Summary

Lumens per Lamp: 900 (2 lamps)
Luminaire Lumens: 442.8 lumens
Efficiency: 24.6%
Efficacy: 17.7 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.44
Luminous Opening: Circular (Dia: 0.54' x H: 0')
CIE Type: Direct

Input Watts (W): 25
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	29	29	29	29	29	29	29	29	27	27	27	26	26	26	25	25	25	25
1	27	25	24	23	26	25	24	23	24	23	22	23	22	21	22	21	21	20
2	24	22	20	19	23	21	20	18	21	19	18	20	19	18	19	18	17	17
3	22	19	17	15	21	19	17	15	18	16	15	17	16	15	17	15	14	14
4	20	17	15	13	19	17	14	13	16	14	13	15	14	13	15	13	12	12
5	18	15	13	11	18	15	13	11	14	12	11	14	12	11	13	12	11	10
6	17	14	11	10	16	13	11	10	13	11	10	12	11	9	12	11	9	9
7	16	12	10	8	15	12	10	8	12	10	8	11	10	8	11	9	8	8
8	15	11	9	8	14	11	9	8	11	9	7	10	9	7	10	9	7	7
9	14	10	8	7	13	10	8	7	10	8	7	10	8	7	9	8	7	6
10	13	9	7	6	12	9	7	6	9	7	6	9	7	6	9	7	6	6

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6525
5°	6518
10°	6555
15°	6611
20°	6656
25°	6716
30°	6785
35°	6809
40°	6799
45°	6751
50°	6649
55°	6507
60°	6418
65°	6300
70°	6132
75°	6010
80°	6052
85°	7128



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	13.2	3.0	0.7
10°-20°	38.6	8.7	2.1
20°-30°	60.1	13.6	3.3
30°-40°	74.7	16.9	4.1
40°-50°	78.7	17.8	4.4
50°-60°	71.6	16.2	4.0
60°-70°	56.3	12.7	3.1
70°-80°	35.3	8.0	2.0
80°-90°	14.3	3.2	0.8
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°	112.0	25.3	6.2
0°-40°	186.6	42.1	10.4
0°-60°	337.0	76.1	18.7
0°-90°	442.8	100.0	24.6
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°	442.8	100.0	24.6

CANDELA DISTRIBUTION:

	0°	Flux
0°	140	
5°	139	13
15°	137	39
25°	130	60
35°	119	75
45°	102	79
55°	80	72
65°	57	56
75°	33	35
85°	13	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	139.7
2.5°	139.5
5°	139.0
7.5°	138.6
10°	138.2
12.5°	137.6
15°	136.7
17.5°	135.4
20°	133.9
22.5°	132.3
25°	130.3
27.5°	128.2
30°	125.8
32.5°	122.8
35°	119.4
37.5°	115.6
40°	111.5
42.5°	107.1
45°	102.2
47.5°	96.9
50°	91.5
52.5°	85.8
55°	79.9
57.5°	74.3
60°	68.7
62.5°	62.9
65°	57.0
67.5°	50.9
70°	44.9
72.5°	39.0
75°	33.3
77.5°	27.7
80°	22.5
82.5°	17.5
85°	13.3
87.5°	10.3
90°	0.0

(END OF REPORT)