

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: H22561

Luminaire Tested: **H803E-800P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H22561
Test Lab: Peachtree City
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H803E-800P
Description: HALO 6 IN RECESSED FLUORESCENT DOWNLIGHT
WITH PARTIALLY PAINTED REFLECTOR AND ALBALITE LENS
Light Source: TWO 4 PIN DTT COMPACT FLUORESCENT LAMPS
TWO PLC 26W/827 26 WATTS
Ballast/Driver: -

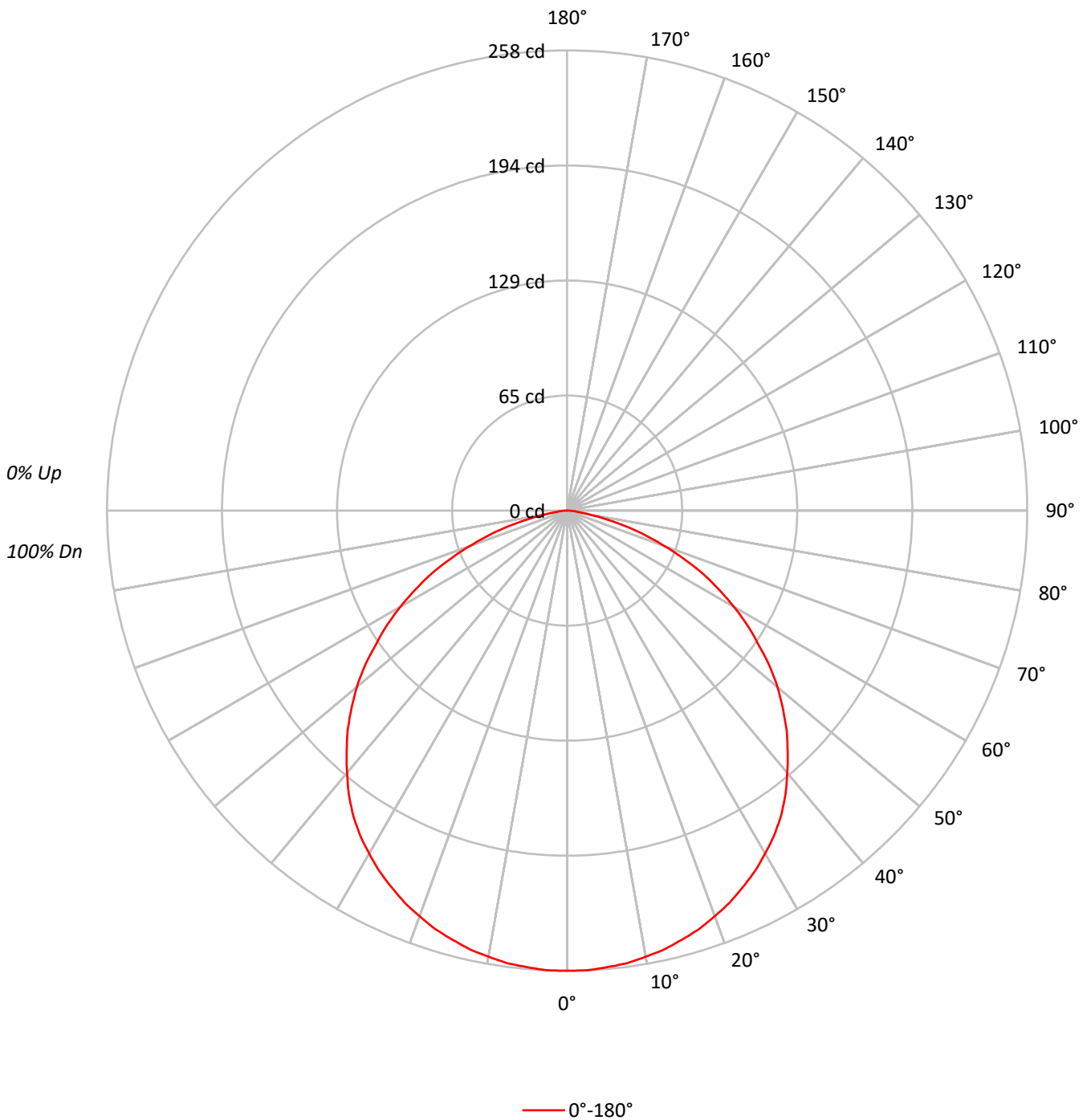
Summary

Lumens per Lamp: 1800 (2 lamps)
Luminaire Lumens: 707.8 lumens
Efficiency: 19.7%
Efficacy: 15.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.38
Luminous Opening: Circular (Dia: 0.54' x H: 0')
CIE Type: Direct

Input Watts (W): 45
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	23	23	23	23	23	23	23	23	22	22	22	21	21	21	20	20	20	20
1	22	21	20	19	21	20	20	19	19	19	18	19	18	18	18	18	17	17
2	20	18	17	16	19	18	17	16	17	16	15	16	16	15	16	15	15	14
3	18	16	14	13	17	16	14	13	15	14	13	15	13	13	14	13	12	12
4	16	14	12	11	16	14	12	11	13	12	11	13	12	11	13	11	11	10
5	15	13	11	10	15	12	11	10	12	11	9	12	10	9	11	10	9	9
6	14	11	10	8	14	11	10	8	11	9	8	11	9	8	10	9	8	8
7	13	10	9	7	13	10	9	7	10	8	7	10	8	7	9	8	7	7
8	12	9	8	7	12	9	8	7	9	8	7	9	7	7	9	7	6	6
9	11	9	7	6	11	9	7	6	8	7	6	8	7	6	8	7	6	5
10	11	8	6	5	10	8	6	5	8	6	5	7	6	5	7	6	5	5

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12051
5°	12050
10°	12048
15°	12041
20°	12029
25°	12009
30°	11974
35°	11918
40°	11707
45°	11494
50°	11191
55°	10668
60°	10089
65°	9284
70°	7921
75°	6136
80°	3497
85°	2144



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	24.4	3.5	0.7
10°-20°	70.3	9.9	2.0
20°-30°	107.5	15.2	3.0
30°-40°	130.5	18.4	3.6
40°-50°	134.0	18.9	3.7
50°-60°	117.4	16.6	3.3
60°-70°	82.6	11.7	2.3
70°-80°	36.2	5.1	1.0
80°-90°	5.0	0.7	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°	202.2	28.6	5.6
0°-40°	332.7	47.0	9.2
0°-60°	584.0	82.5	16.2
0°-90°	707.8	100.0	19.7
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°	707.8	100.0	19.7

CANDELA DISTRIBUTION:

	0°	Flux
0°	258	
5°	257	24
15°	249	70
25°	233	107
35°	209	130
45°	174	134
55°	131	117
65°	84	83
75°	34	36
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	258
2.5°	258
5°	257
7.5°	256
10°	254
12.5°	252
15°	249
17.5°	246
20°	242
22.5°	238
25°	233
27.5°	228
30°	222
32.5°	216
35°	209
37.5°	201
40°	192
42.5°	183
45°	174
47.5°	164
50°	154
52.5°	143
55°	131
57.5°	120
60°	108
62.5°	96
65°	84
67.5°	71
70°	58
72.5°	46
75°	34
77.5°	22
80°	13
82.5°	6
85°	4
87.5°	2
90°	0

(END OF REPORT)