

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: H23440

Luminaire Tested: **H803E-801P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H23440
Test Lab: Peachtree City
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H803E-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 CFQ26WG24D/827 26WATTS
Ballast/Driver: -

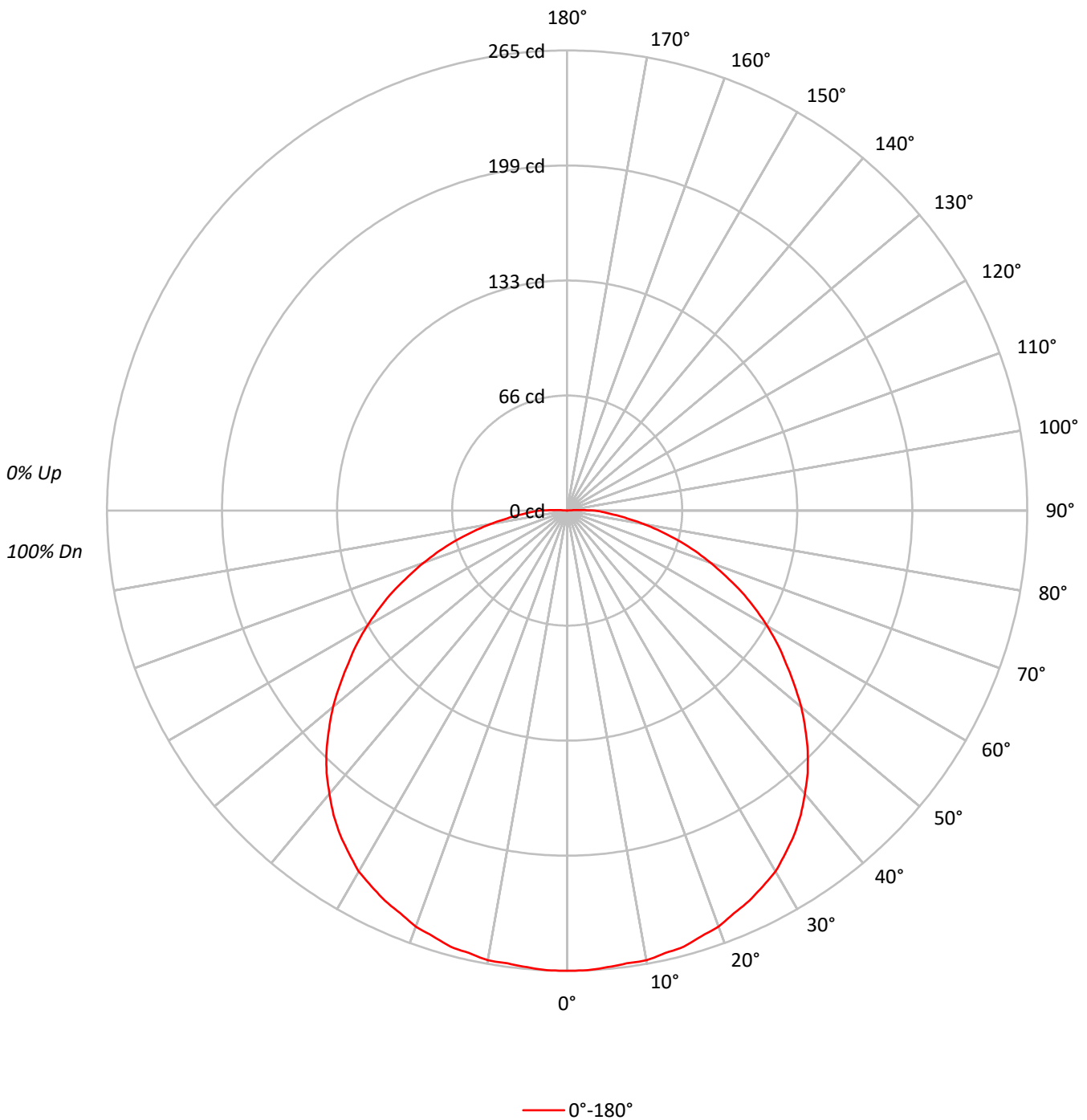
Summary

Lumens per Lamp: 1800 (2 lamps)
Luminaire Lumens: 858.6 lumens
Efficiency: 23.8%
Efficacy: 19.5 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.44
Luminous Opening: Vertical Cylinder (Dia: 0.45' x H: 0.04')
CIE Type: Direct

Input Watts (W): 44
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	28	28	28	28	28	28	28	28	26	26	26	25	25	25	24	24	24	24
1	26	24	23	22	25	24	23	22	23	22	21	22	21	21	21	20	20	19
2	23	21	19	18	23	21	19	18	20	18	17	19	18	17	18	17	16	16
3	21	18	16	15	20	18	16	15	17	16	14	17	15	14	16	15	14	13
4	19	16	14	12	19	16	14	12	15	14	12	15	13	12	14	13	12	11
5	18	15	12	11	17	14	12	11	14	12	10	13	12	10	13	11	10	10
6	16	13	11	9	16	13	11	9	12	10	9	12	10	9	12	10	9	8
7	15	12	10	8	15	12	10	8	11	9	8	11	9	8	11	9	8	7
8	14	11	9	7	14	11	9	7	10	8	7	10	8	7	10	8	7	7
9	13	10	8	6	13	10	8	6	9	8	6	9	8	6	9	7	6	6
10	12	9	7	6	12	9	7	6	9	7	6	8	7	6	8	7	6	5

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	18102
5°	17917
10°	17870
15°	17822
20°	17771
25°	17714
30°	17719
35°	17557
40°	17277
45°	16929
50°	16390
55°	15687
60°	15077
65°	14307
70°	13261
75°	12080
80°	10589
85°	8991



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	25.2	2.9	0.7
10°-20°	73.4	8.5	2.0
20°-30°	114.4	13.3	3.2
30°-40°	142.5	16.6	4.0
40°-50°	150.9	17.6	4.2
50°-60°	138.1	16.1	3.8
60°-70°	109.5	12.8	3.0
70°-80°	69.8	8.1	1.9
80°-90°	30.9	3.6	0.9
90°-100°	3.8	0.4	0.1
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°	213.0	24.8	5.9
0°-40°	355.5	41.4	9.9
0°-60°	644.5	75.1	17.9
0°-90°	854.7	99.6	23.7
90°-120°	3.8	0.4	0.1
90°-150°	3.8	0.4	0.1
90°-180°	4.0	0.5	0.1
0°-180°	858.6	100.0	23.8

CANDELA DISTRIBUTION:

	0°	Flux
0°	265	
5°	264	25
15°	260	73
25°	248	114
35°	228	143
45°	196	151
55°	154	138
65°	111	110
75°	66	70
85°	27	26
90°	16	8
95°	0	1
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°	265
2.5°	265
5°	264
7.5°	263
10°	263
12.5°	261
15°	260
17.5°	257
20°	255
22.5°	251
25°	248
27.5°	244
30°	240
32.5°	234
35°	228
37.5°	221
40°	213
42.5°	205
45°	196
47.5°	186
50°	176
52.5°	165
55°	154
57.5°	144
60°	133
62.5°	122
65°	111
67.5°	99
70°	88
72.5°	77
75°	66
77.5°	55
80°	45
82.5°	35
85°	27
87.5°	21
90°	16
92.5°	6
95°	0
97.5°	0
100°	0
102.5°	0
105°	0
107.5°	0
110°	0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0
115°	0
117.5°	0
120°	0
122.5°	0
125°	0
127.5°	0
130°	0
132.5°	0
135°	0
137.5°	0
140°	0
142.5°	0
145°	0
147.5°	0
150°	0
152.5°	0
155°	0
157.5°	0
160°	0
162.5°	0
165°	0
167.5°	0
170°	0
172.5°	0
175°	0
177.5°	0
180°	0

(END OF REPORT)