

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: H23491

Luminaire Tested: **H802E-804P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H23491
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H802E-804P
Description: HALO 8 IN FLUORESCENT RECESSED DOWNLIGHT
WITH SPECULAR REFLECTOR AND WHITE CROSS LOUVERED TRIM
Light Source: TWO 4 PIN DTT COMPACT FLUORESCENT LAMPS
TWO CF18W/827 18WATTS
Ballast/Driver: -

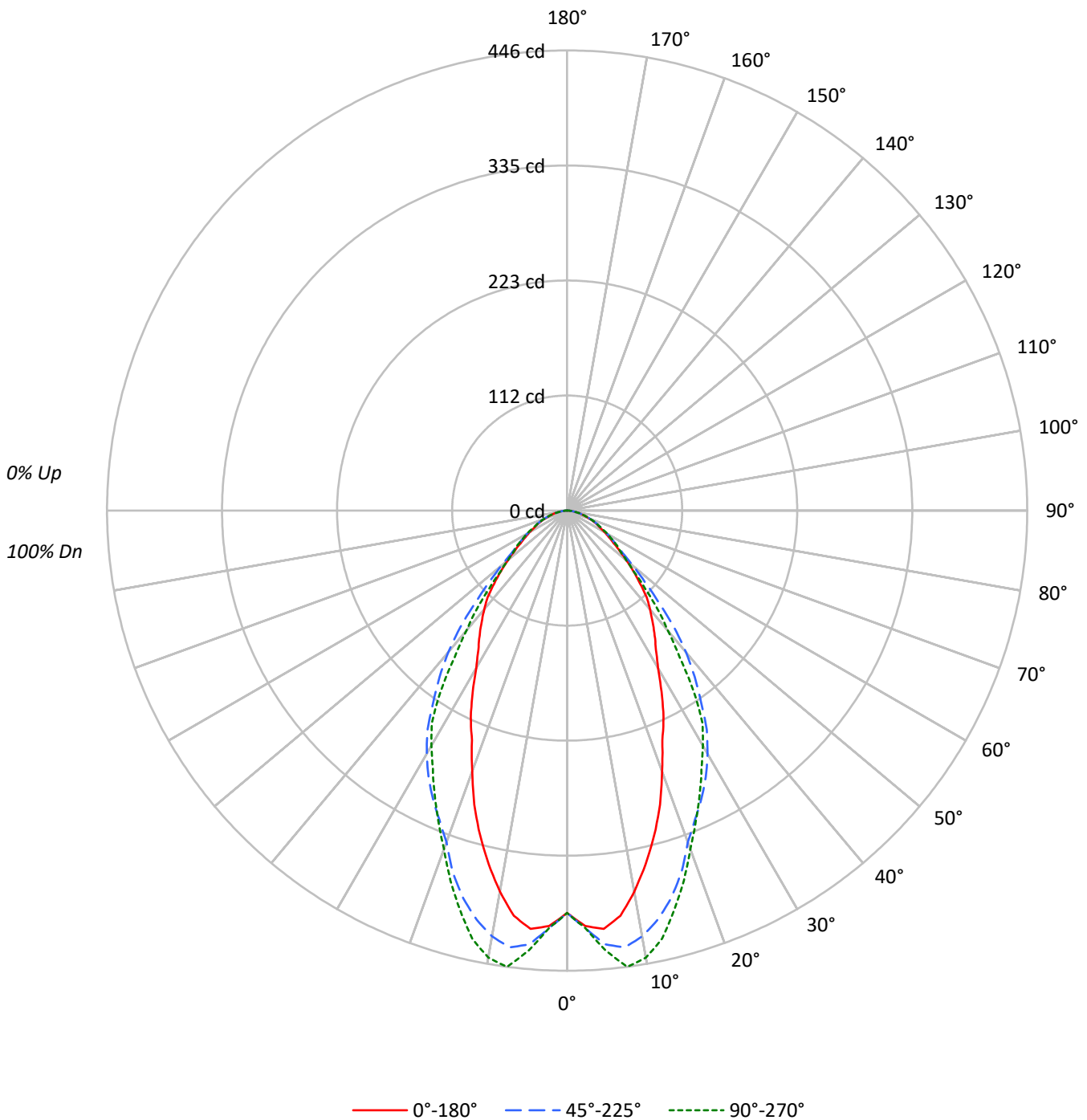
Summary

Lumens per Lamp: 1250 (2 lamps)
Luminaire Lumens: 595.4 lumens
Efficiency: 23.8%
Efficacy: 18.0 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 1.05 / 1.1
Luminous Opening: Circular (Dia: 0.56' x H: 0')
CIE Type: Direct

Input Watts (W): 33
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										
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	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	24	24	24	24	24	24														
1	27	26	25	24	26	25	24	24	24	24	23	23	22	22	22	22	22	22	22	22	22	22	21	21														
2	25	23	22	21	24	23	22	21	22	21	20	21	20	20	20	20	19	19	19	19	19	19	19	19														
3	23	21	19	18	22	21	19	18	20	19	18	19	18	17	19	18	17	17	17	17	17	17	17	17														
4	21	19	17	16	21	19	17	16	18	17	16	18	17	16	17	16	15	15	15	15	15	15	15	15														
5	20	17	16	14	20	17	16	14	17	15	14	16	15	14	16	15	14	14	14	14	14	14	14	13														
6	19	16	14	13	18	16	14	13	15	14	13	15	14	13	15	14	13	13	13	13	13	13	13	12														
7	18	15	13	12	17	15	13	12	14	13	12	14	13	12	14	13	12	12	12	12	12	12	12	11														
8	17	14	12	11	16	14	12	11	13	12	11	13	12	11	13	12	11	11	11	11	11	11	11	10														
9	16	13	11	10	15	13	11	10	12	11	10	12	11	10	12	11	10	10	10	10	10	10	10	9														
10	15	12	10	9	14	12	10	9	12	10	9	11	10	9	11	10	9	9	9	9	9	9	9	9														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16893	16893	16893
5°	17696	18349	18610
10°	16494	18429	19352
15°	14619	17444	17982
20°	12399	15764	16087
25°	10562	14720	14529
30°	8803	13604	13154
35°	7826	11950	11316
40°	7068	10121	8595
45°	6126	7657	6554
50°	5054	5593	5054
55°	4153	4455	4455
60°	3638	3812	3898
65°	3280	3382	3382
70°	2913	3039	3039
75°	2510	2678	2678
80°	2245	2245	2245
85°	1988	1988	1988



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	39.7	6.7	1.6
10°-20°	104.4	17.5	4.2
20°-30°	130.7	22.0	5.2
30°-40°	126.2	21.2	5.0
40°-50°	88.1	14.8	3.5
50°-60°	52.5	8.8	2.1
60°-70°	32.6	5.5	1.3
70°-80°	16.8	2.8	0.7
80°-90°	4.5	0.7	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°	274.8	46.2	11.0
0°-40°	401.0	67.4	16.0
0°-60°	541.6	91.0	21.7
0°-90°	595.4	100.0	23.8
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°	595.4	100.0	23.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	390	390	390	390	390	
5°	407	408	422	427	428	38
15°	326	345	389	402	401	90
25°	221	258	308	308	304	101
35°	148	186	226	222	214	93
45°	100	110	125	113	107	77
55°	55	55	59	59	59	50
65°	32	32	33	33	33	32
75°	15	15	16	16	16	16
85°	4	4	4	4	4	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	390	390	390	390	390
2.5°	403	402	405	405	405
5°	407	408	422	427	428
7.5°	396	403	427	440	446
10°	375	386	419	437	440
12.5°	351	366	406	424	425
15°	326	345	389	402	401
17.5°	299	323	368	377	376
20°	269	299	342	349	349
22.5°	241	278	324	327	326
25°	221	258	308	308	304
27.5°	198	240	291	292	282
30°	176	221	272	272	263
32.5°	160	204	252	251	244
35°	148	186	226	222	214
37.5°	136	167	203	188	179
40°	125	148	179	158	152
42.5°	114	129	153	136	130
45°	100	110	125	113	107
47.5°	87	91	102	95	88
50°	75	78	83	81	75
52.5°	64	65	68	69	65
55°	55	55	59	59	59
57.5°	48	48	51	51	51
60°	42	42	44	44	45
62.5°	36	36	38	38	38
65°	32	32	33	33	33
67.5°	27	28	29	29	29
70°	23	23	24	24	24
72.5°	19	19	20	20	20
75°	15	15	16	16	16
77.5°	12	12	12	12	12
80°	9	9	9	9	9
82.5°	6	6	6	6	6
85°	4	4	4	4	4
87.5°	1	2	2	2	2
90°	0	0	0	0	0

(END OF REPORT)