

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: ITL53803

Luminaire Tested: **H803HP-810WW**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: ITL53803
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H803HP-810WW
Description: FABRICATED METAL FRAME. SPUN SPECULAR METAL "DEAVER"
REFLECTOR. FABRICATED METAL LOWER REFLECTOR INSERT WITH
SEMI-DIFFUSE SIDE PANEL, BLACK PAINTED BAFFLE, WHITE
PAINTED BOTTOM TRIM WITH SEMI-CIRCULAR FORWARD APERTURE.
OPEN BOTTOM.
Light Source: TWO 18-WATT DOUBLE TWIN TUBE COMPACT FLUORESCENTS, SYLVANIA
Ballast/Driver: UNIVERSAL 4122P-BES

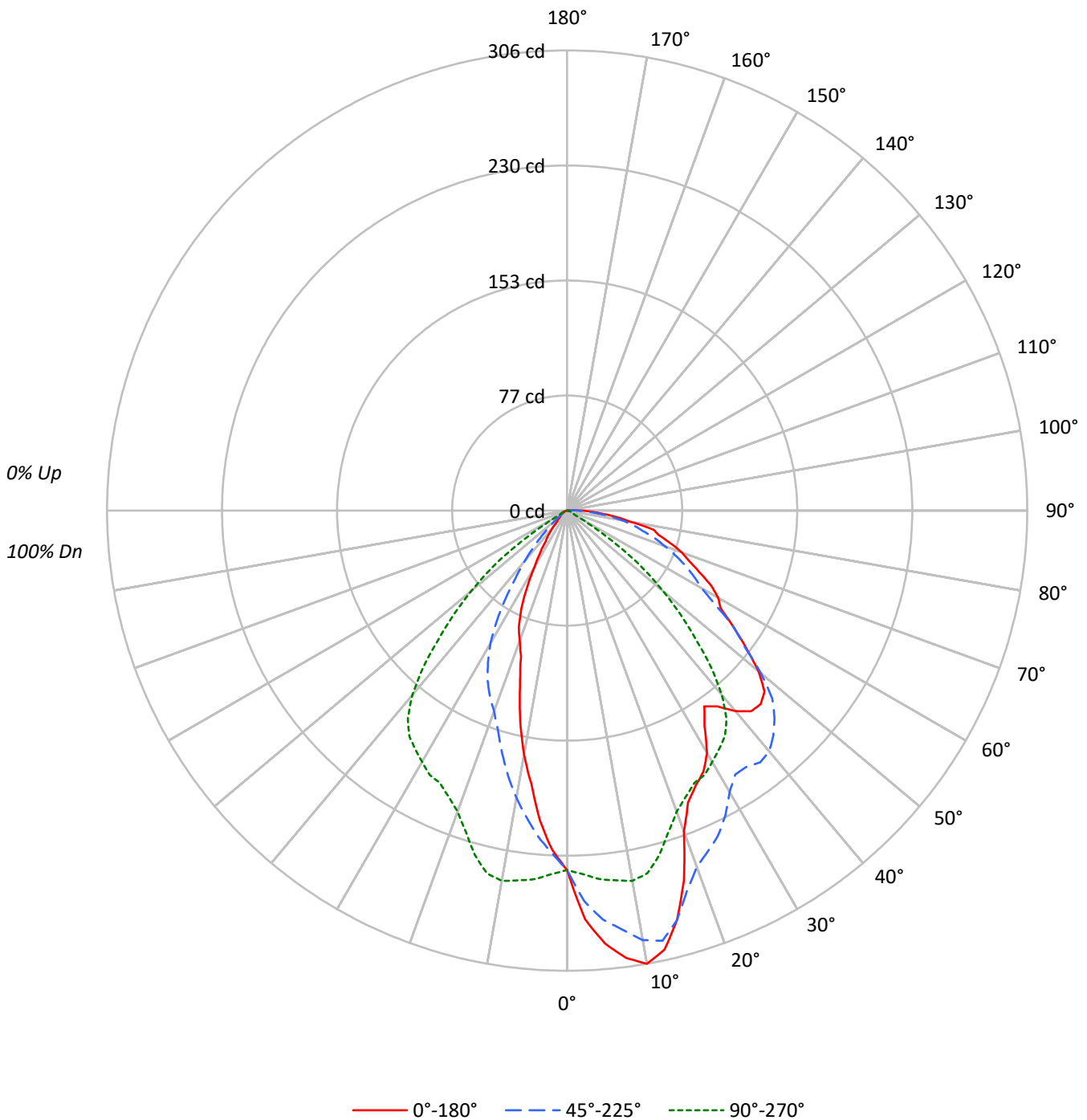
Summary

Lumens per Lamp: 1250 (2 lamps)
Luminaire Lumens: 470.9 lumens
Efficiency: 18.8%
Efficacy: 9.8 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 1.21 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.55' x L: 0.27' x H: 0.05')
CIE Type: Direct

Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (A_{in}): 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									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	22	22	22	22	22	22	22	22	21	21	21	20	20	20	19	19	19	19	19	19	19	19	19	19													
1	21	20	19	18	20	19	19	18	19	18	18	18	17	17	17	17	17	17	17	17	17	17	17	16													
2	19	18	16	15	18	17	16	15	17	16	15	16	15	14	15	15	14	15	15	14	15	15	14	14													
3	17	16	14	13	17	15	14	13	15	14	13	14	13	13	14	13	12	14	13	12	14	13	12	12													
4	16	14	13	11	16	14	12	11	13	12	11	13	12	11	12	12	11	12	12	11	12	12	11	10													
5	15	13	11	10	15	12	11	10	12	11	10	12	11	10	11	10	10	11	10	10	11	10	10	9													
6	14	12	10	9	14	11	10	9	11	10	9	11	10	9	10	9	9	10	9	9	10	9	9	8													
7	13	11	9	8	13	10	9	8	10	9	8	10	9	8	10	9	8	10	9	8	10	9	8	7													
8	12	10	8	7	12	10	8	7	9	8	7	9	8	7	9	8	7	9	8	7	9	8	7	7													
9	11	9	8	7	11	9	7	7	9	7	6	8	7	6	8	7	6	8	7	6	8	7	6	6													
10	11	8	7	6	10	8	7	6	8	7	6	8	7	6	8	7	6	8	7	6	8	7	6	6													

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	17370	17370	17370
5°	20770	17814	14877
10°	21914	18175	11816
15°	20278	17432	8701
20°	16516	15976	6694
25°	14989	15422	5342
30°	14191	15433	3357
35°	12582	15317	1978
40°	14414	14161	1243
45°	15945	11455	789
50°	15558	8515	562
55°	13714	5080	508
60°	12971	886	447
65°	12164	581	376
70°	11663	516	288
75°	10746	425	171
80°	9079	282	211
85°	6437	421	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	23.3	4.9	0.9
10°-20°	61.6	13.1	2.5
20°-30°	80.9	17.2	3.2
30°-40°	88.3	18.7	3.5
40°-50°	84.5	17.9	3.4
50°-60°	58.6	12.4	2.3
60°-70°	38.0	8.1	1.5
70°-80°	25.2	5.4	1.0
80°-90°	9.7	2.1	0.4
90°-100°	1.0	0.2	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°	165.7	35.2	6.6
0°-40°	254.0	53.9	10.2
0°-60°	397.1	84.3	15.9
0°-90°	470.0	99.8	18.8
90°-120°	1.0	0.2	0.0
90°-150°	1.0	0.2	0.0
90°-180°	1.0	0.2	0.0
0°-180°	470.9	100.0	18.8

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	239	239	239	239	239	
5°	289	273	246	218	207	28
15°	282	282	237	167	121	77
25°	202	238	200	125	72	94
35°	159	208	183	71	25	106
45°	182	195	121	24	9	138
55°	135	135	45	5	5	122
65°	97	87	4	3	3	97
75°	63	52	2	1	1	68
85°	23	19	1	0	0	23
90°	9	7	0	0	0	5
95°	2	0	0	0	0	1
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	239	239	239	239	239	239	239	239	239
2.5°	272	268	260	252	242	234	228	225	226
5°	289	283	273	261	246	229	218	209	207
7.5°	300	293	281	268	248	224	206	189	183
10°	306	301	290	274	250	221	194	170	165
12.5°	299	300	293	274	247	215	181	151	144
15°	282	288	282	265	237	204	167	132	121
17.5°	258	266	265	249	224	193	153	115	102
20°	227	247	252	238	213	182	142	106	92
22.5°	210	234	245	232	206	176	134	98	84
25°	202	225	238	224	200	175	125	86	72
27.5°	196	216	228	219	198	168	114	72	58
30°	186	204	216	214	193	156	102	56	44
32.5°	170	189	208	211	188	145	87	44	34
35°	159	187	208	212	183	134	71	33	25
37.5°	164	192	211	209	174	120	56	25	20
40°	174	196	209	200	160	104	44	18	15
42.5°	181	196	203	190	142	86	33	13	10
45°	182	193	195	180	121	64	24	9	9
47.5°	178	186	185	168	102	45	16	7	7
50°	166	171	168	151	83	30	11	6	6
52.5°	150	156	149	132	65	18	7	5	6
55°	135	143	135	111	45	12	5	5	5
57.5°	121	127	117	86	23	8	4	4	4
60°	116	114	103	67	7	5	4	4	4
62.5°	108	106	95	66	5	4	3	3	3
65°	97	98	87	60	4	3	3	3	3
67.5°	88	90	78	53	3	3	2	2	2
70°	81	82	69	47	3	2	2	2	2
72.5°	72	74	61	40	2	2	2	2	2
75°	63	66	52	32	2	2	1	1	1
77.5°	59	62	45	25	1	1	1	1	1
80°	43	52	37	19	1	1	1	1	1
82.5°	33	34	28	14	1	1	0	0	0
85°	23	24	19	10	1	1	0	0	0
87.5°	16	16	12	6	1	1	0	0	0
90°	9	9	7	4	0	0	0	0	0
92.5°	4	4	4	2	0	0	0	0	0
95°	2	3	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0

(END OF REPORT)