

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: H23481

Luminaire Tested: **H802E-803P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H23481
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H802E-803P
Description: HALO 8 IN FLUORESCENT RECESSED DOWNLIGHT
WITH SPECULAR REFLECTOR AND FRESNEL LENSED TRIM
Light Source: TWO 4 PIN DTT COMPACT FLUORESCENT LAMPS
TWO CF18W/827 18WATTS
Ballast/Driver: -

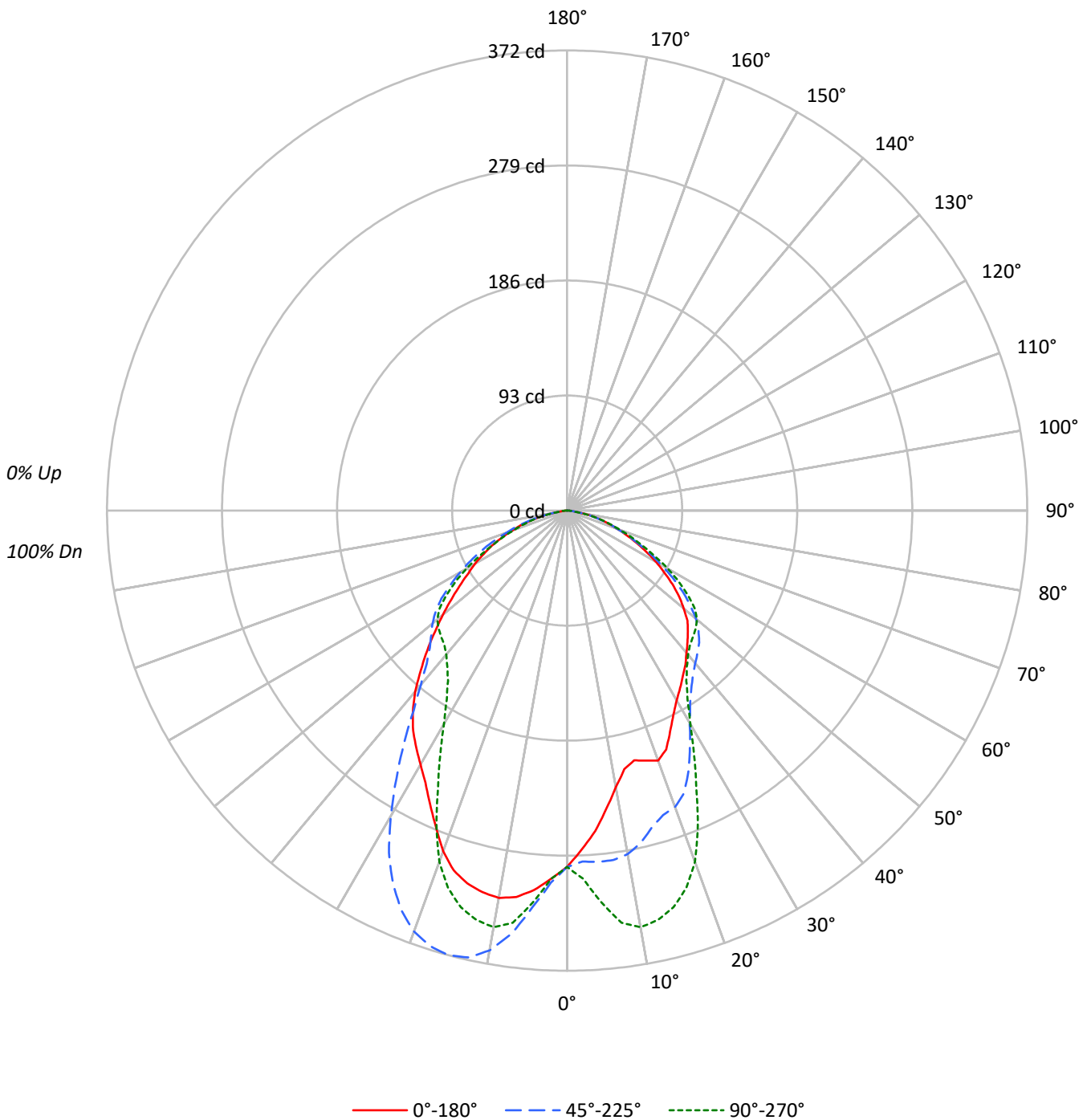
Summary

Lumens per Lamp: 1250 (2 lamps)
Luminaire Lumens: 688.1 lumens
Efficiency: 27.5%
Efficacy: 22.9 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.22
Luminous Opening: Circular (Dia: 0.54' x H: 0')
CIE Type: Direct

Input Watts (W): 30
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	50	30	10	0	
RCR																						
0	33	33	33	33	32	32	32	32	31	31	31	29	29	29	28	28	28	28	28	28	28	
1	30	29	28	27	30	29	28	27	27	27	26	26	26	25	25	25	24	24	24	24	24	
2	28	26	24	23	27	25	24	22	24	23	22	23	22	21	23	22	21	20	20	20	20	
3	26	23	21	19	25	22	21	19	22	20	19	21	19	18	20	19	18	17	17	17	17	
4	24	20	18	16	23	20	18	16	19	18	16	19	17	16	18	17	16	15	15	15	15	
5	22	18	16	14	21	18	16	14	18	16	14	17	15	14	17	15	14	13	13	13	13	
6	20	17	14	13	20	16	14	13	16	14	13	15	14	12	15	14	12	12	12	12	12	
7	19	15	13	11	18	15	13	11	15	13	11	14	12	11	14	12	11	11	11	11	11	
8	18	14	12	10	17	14	12	10	13	11	10	13	11	10	13	11	10	9	9	9	9	
9	16	13	11	9	16	13	11	9	12	11	9	12	10	9	12	10	9	8	8	8	8	
10	15	12	10	8	15	12	10	8	12	10	8	11	10	8	11	9	8	8	8	8	8	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	13453	13453	13453
5°	12191	14911	14442
10°	10767	16221	15083
15°	10107	16055	15088
20°	10687	15012	14565
25°	10153	12730	13503
30°	9547	10733	12783
35°	9295	9580	12374
40°	9146	9268	11646
45°	9116	9512	10569
50°	8938	9956	9520
55°	8469	9691	8632
60°	7754	8782	8034
65°	6853	7405	7405
70°	5873	6146	6419
75°	5053	5053	5234
80°	3228	2959	2690
85°	2144	2144	1608



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	29.4	4.3	1.2
10°-20°	87.2	12.7	3.5
20°-30°	120.6	17.5	4.8
30°-40°	122.9	17.9	4.9
40°-50°	120.7	17.5	4.8
50°-60°	104.4	15.2	4.2
60°-70°	68.0	9.9	2.7
70°-80°	30.3	4.4	1.2
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°	237.3	34.5	9.5
0°-40°	360.2	52.3	14.4
0°-60°	585.3	85.1	23.4
0°-90°	688.1	100.0	27.5
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°	688.1	100.0	27.5

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	288	288	288	288	288	
5°	260	285	318	322	308	24
15°	209	265	332	372	312	61
25°	197	232	247	333	262	91
35°	163	175	168	230	217	102
45°	138	151	144	157	160	106
55°	104	114	119	124	106	93
65°	62	64	67	76	67	62
75°	28	27	28	32	29	29
85°	4	4	4	3	3	5
90°	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°	288	288	288	288	288	288	288	288	288
2.5°	274	278	284	292	298	301	301	305	298
5°	260	268	285	304	318	325	322	322	308
7.5°	243	256	285	314	336	348	345	339	315
10°	227	245	282	316	342	360	361	351	318
12.5°	214	235	275	309	339	363	370	358	316
15°	209	229	265	299	332	360	372	360	312
17.5°	212	230	258	286	320	353	369	361	305
20°	215	234	255	271	302	339	362	358	293
22.5°	209	227	247	251	276	315	350	350	277
25°	197	213	232	229	247	284	333	339	262
27.5°	186	199	215	210	222	251	312	328	248
30°	177	186	198	193	199	221	285	315	237
32.5°	170	176	185	180	181	196	257	300	227
35°	163	168	175	169	168	177	230	284	217
37.5°	157	162	167	162	159	164	204	267	205
40°	150	157	161	155	152	156	184	249	191
42.5°	144	152	156	150	147	152	168	230	175
45°	138	147	151	145	144	150	157	208	160
47.5°	132	140	144	139	141	148	149	188	145
50°	123	132	136	131	137	144	142	167	131
52.5°	114	122	125	122	130	136	134	147	118
55°	104	111	114	110	119	126	124	129	106
57.5°	93	99	101	99	107	114	112	114	95
60°	83	86	88	86	94	100	100	99	86
62.5°	72	74	76	74	80	87	88	87	76
65°	62	64	64	63	67	74	76	75	67
67.5°	52	53	53	52	56	61	64	64	57
70°	43	44	43	42	45	50	52	53	47
72.5°	35	35	35	34	36	40	42	43	39
75°	28	28	27	26	28	30	32	32	29
77.5°	20	20	20	18	19	19	21	20	20
80°	12	12	12	11	11	11	11	10	10
82.5°	6	6	6	6	6	6	6	5	5
85°	4	4	4	4	4	4	3	3	3
87.5°	2	2	2	2	2	1	1	1	1
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)