

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: H23484

Luminaire Tested: **H800E-803P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H23484
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H800E-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 CF13W/827 13WATTS
Ballast/Driver: -

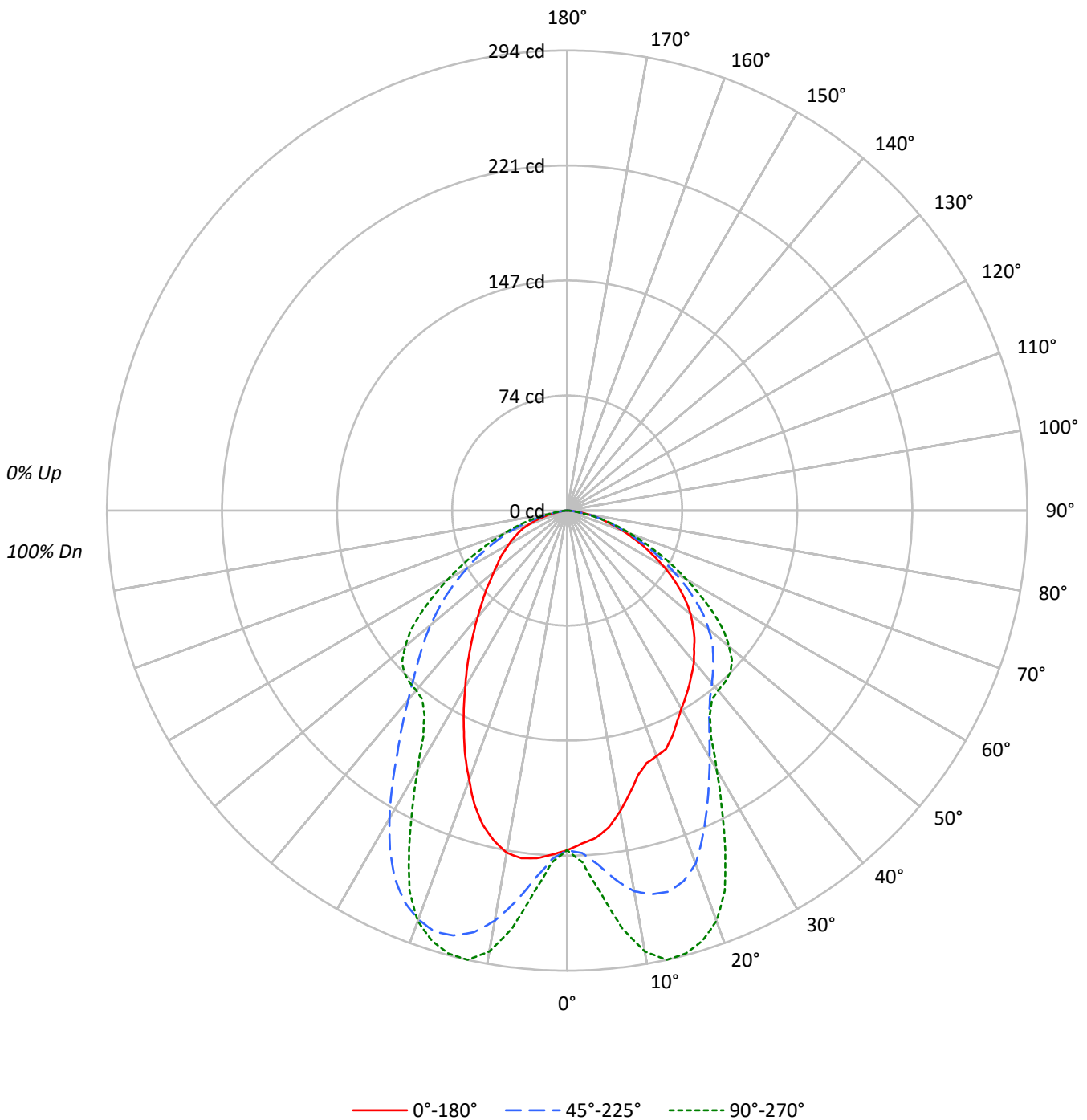
Summary

Lumens per Lamp: 900 (2 lamps)
Luminaire Lumens: 563.6 lumens
Efficiency: 31.3%
Efficacy: 22.5 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.24 / 1.33
Luminous Opening: Circular (Dia: 0.54' x H: 0')
CIE Type: Direct

Input Watts (W): 25
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	37	37	37	37	36	36	36	36	35	35	35	33	33	33	32	32	32	31
1	34	33	32	31	34	32	31	30	31	30	29	30	29	29	29	28	28	27
2	32	29	27	26	31	29	27	25	28	26	25	27	25	24	26	25	24	23
3	29	26	24	22	28	26	23	22	25	23	21	24	22	21	23	22	21	20
4	27	23	21	19	26	23	20	19	22	20	18	21	20	18	21	19	18	17
5	25	21	18	16	24	21	18	16	20	18	16	19	17	16	19	17	16	15
6	23	19	16	14	22	19	16	14	18	16	14	18	16	14	17	15	14	13
7	21	17	15	13	21	17	15	13	17	14	13	16	14	13	16	14	13	12
8	20	16	13	12	19	16	13	12	15	13	12	15	13	11	15	13	11	11
9	19	15	12	11	18	14	12	11	14	12	10	14	12	10	13	12	10	10
10	18	14	11	10	17	13	11	10	13	11	10	13	11	10	13	11	9	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	10136	10136	10136
5°	9847	11488	10456
10°	9249	13565	10530
15°	8463	14169	10059
20°	8301	13869	9097
25°	8195	12318	8040
30°	7875	10302	7012
35°	7755	9067	6158
40°	7683	9146	5427
45°	7597	9711	4888
50°	7485	9810	4433
55°	7166	9284	4235
60°	6633	8221	4017
65°	5968	7074	3868
70°	5190	5873	3551
75°	4331	4692	2888
80°	3497	2690	1614
85°	2144	1608	1072



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	22.9	4.1	1.3
10°-20°	72.0	12.8	4.0
20°-30°	100.7	17.9	5.6
30°-40°	101.0	17.9	5.6
40°-50°	98.7	17.5	5.5
50°-60°	84.5	15.0	4.7
60°-70°	55.4	9.8	3.1
70°-80°	24.6	4.4	1.4
80°-90°	3.8	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°	195.6	34.7	10.9
0°-40°	296.6	52.6	16.5
0°-60°	479.8	85.1	26.7
0°-90°	563.6	100.0	31.3
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°	563.6	100.0	31.3

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	217	217	217	217	217	
5°	210	227	245	236	223	20
15°	175	252	293	281	208	50
25°	159	211	239	260	156	73
35°	136	158	159	189	108	85
45°	115	132	147	134	74	89
55°	88	100	114	94	52	78
65°	54	59	64	55	35	53
75°	24	25	26	22	16	26
85°	4	4	3	2	2	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°	217	217	217	217	217	217	217	217	217
2.5°	213	216	219	223	225	225	223	224	220
5°	210	216	227	239	245	244	236	235	223
7.5°	204	215	238	259	269	266	252	246	224
10°	195	212	247	274	286	283	266	253	222
12.5°	185	207	251	282	294	293	276	256	216
15°	175	203	252	282	293	295	281	258	208
17.5°	169	199	248	275	288	291	282	257	197
20°	167	195	240	265	279	283	278	254	183
22.5°	165	188	226	251	263	271	271	247	170
25°	159	177	211	233	239	250	260	237	156
27.5°	152	168	196	214	214	227	245	224	143
30°	146	159	182	194	191	203	227	209	130
32.5°	141	152	169	177	171	180	208	192	119
35°	136	146	158	165	159	164	189	175	108
37.5°	131	140	150	156	152	155	173	157	98
40°	126	135	144	151	150	151	158	138	89
42.5°	120	130	138	147	149	149	145	119	81
45°	115	125	132	142	147	146	134	104	74
47.5°	109	120	126	136	143	141	124	91	67
50°	103	114	118	128	135	133	114	80	61
52.5°	96	107	110	119	126	123	104	71	56
55°	88	98	100	108	114	111	94	63	52
57.5°	80	88	90	97	101	99	84	57	47
60°	71	78	79	85	88	86	74	51	43
62.5°	62	68	69	73	76	74	65	46	39
65°	54	58	59	62	64	63	55	40	35
67.5°	45	48	49	51	53	53	47	35	31
70°	38	39	40	41	43	43	38	29	26
72.5°	30	32	32	33	34	34	30	23	21
75°	24	25	25	26	26	25	22	17	16
77.5°	19	19	19	18	17	16	14	10	11
80°	13	13	12	11	10	8	7	5	6
82.5°	7	7	6	6	5	5	4	3	4
85°	4	4	4	3	3	3	2	2	2
87.5°	1	2	2	2	1	1	1	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)