

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: H23441

Luminaire Tested: **H803E-810C**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H23441
Test Lab: Peachtree City
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H803E-810C
Description: HALO 8 IN FLUORESCENT RECESSED DOWNLIGHT
WITH SPECULAR REFLECTOR
Light Source: TWO 4 PIN DTT COMPACT FLUORESCENT LAMPS
TWO CFQ26WG24D/827 26WATTS
Ballast/Driver: -

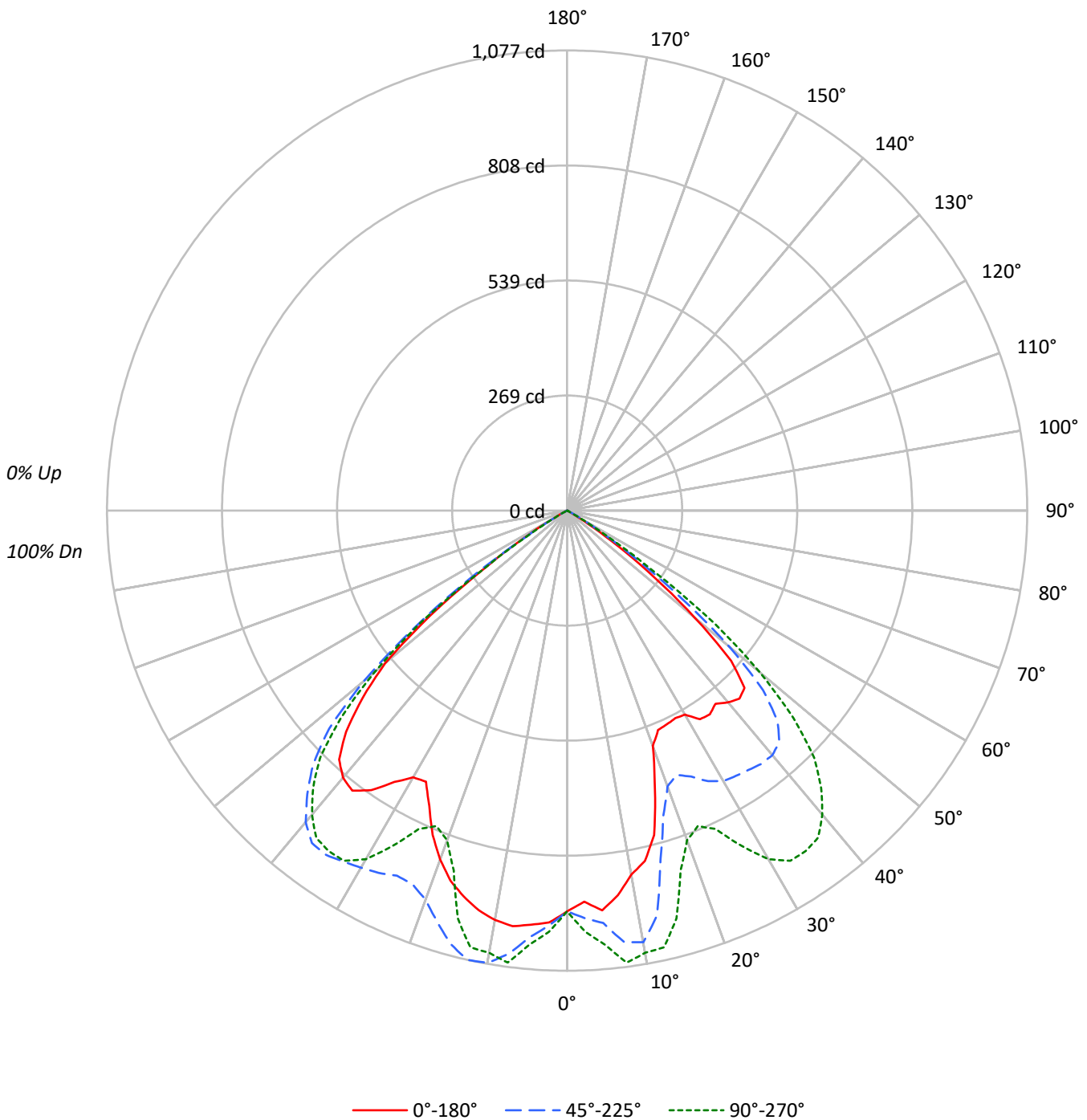
Summary

Lumens per Lamp: 1800 (2 lamps)
Luminaire Lumens: 2044.2 lumens
Efficiency: 56.8%
Efficacy: 43.5 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 1.56 / 1.49
Luminous Opening: Circular (Dia: 0.58' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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	68	68	68	68	66	66	66	66	63	63	63	60	60	60	58	58	58	57
1	64	62	60	58	62	60	59	57	58	57	56	56	55	54	54	53	52	51
2	59	56	53	50	58	55	52	50	53	51	49	51	49	48	49	48	47	46
3	55	50	47	44	54	50	46	43	48	45	43	46	44	42	45	43	41	40
4	51	46	41	38	50	45	41	38	43	40	38	42	39	37	41	39	37	36
5	47	41	37	34	46	41	37	34	40	36	33	38	35	33	38	35	33	32
6	44	37	33	30	43	37	33	30	36	32	30	35	32	29	34	31	29	28
7	41	34	30	27	40	34	30	27	33	29	27	32	29	26	31	28	26	25
8	38	31	27	24	37	31	27	24	30	27	24	30	26	24	29	26	24	23
9	36	29	25	22	35	28	24	22	28	24	22	27	24	21	27	24	21	20
10	33	27	22	20	33	26	22	20	26	22	20	25	22	20	25	22	19	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	37779	37779	37779
5°	37964	41239	39338
10°	35376	42983	39793
15°	32774	41197	38987
20°	25116	35189	37246
25°	24531	36529	33908
30°	25625	43809	33531
35°	28616	47840	39285
40°	30810	48844	42903
45°	33435	46592	41694
50°	24437	36906	34838
55°	10112	17204	16712
60°	967	2497	2980
65°	191	286	381
70°	118	118	236
75°	156	156	156
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	95.6	4.7	2.7
10°-20°	260.4	12.7	7.2
20°-30°	369.6	18.1	10.3
30°-40°	531.5	26.0	14.8
40°-50°	560.0	27.4	15.6
50°-60°	219.8	10.8	6.1
60°-70°	6.5	0.3	0.2
70°-80°	0.7	0.0	0.0
80°-90°	0.0	0.0	0.0
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°	725.6	35.5	20.2
0°-40°	1257.1	61.5	34.9
0°-60°	2037.0	99.6	56.6
0°-90°	2044.2	100.0	56.8
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°	2044.2	100.0	56.8

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	938	938	938	938	938	
5°	939	969	1020	1002	973	87
15°	786	844	988	1051	935	211
25°	552	687	822	943	763	257
35°	582	741	973	984	799	361
45°	587	696	818	841	732	423
55°	144	194	245	280	238	145
65°	2	2	3	3	4	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	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°	938	938	938	938	938	938	938	938	938
2.5°	916	930	955	975	987	986	972	966	965
5°	939	952	969	1001	1020	1017	1002	984	973
7.5°	908	955	1018	1058	1067	1066	1046	994	981
10°	865	935	1026	1063	1051	1072	1075	1014	973
12.5°	840	897	971	1034	1047	1081	1077	1034	958
15°	786	813	844	938	988	1045	1051	1027	935
17.5°	683	696	748	809	883	959	1010	995	908
20°	586	614	687	760	821	903	969	945	869
22.5°	556	590	669	755	799	877	946	910	822
25°	552	585	687	786	822	902	943	897	763
27.5°	548	595	714	841	885	945	956	896	715
30°	551	608	731	882	942	981	965	906	721
32.5°	579	627	736	896	972	994	974	929	753
35°	582	618	741	888	973	989	984	948	799
37.5°	570	612	747	877	965	986	981	931	826
40°	586	611	747	850	929	960	952	900	816
42.5°	597	603	735	819	880	900	900	863	790
45°	587	582	696	767	818	839	841	808	732
47.5°	521	521	622	688	718	750	756	716	650
50°	390	402	495	559	589	613	622	598	556
52.5°	260	267	338	398	436	442	453	438	404
55°	144	159	194	219	245	250	280	267	238
57.5°	57	80	96	94	107	102	114	117	120
60°	12	35	35	31	31	29	27	33	37
62.5°	3	6	8	5	5	5	5	8	9
65°	2	2	2	2	3	3	3	3	4
67.5°	2	2	2	2	2	2	2	2	2
70°	1	1	1	1	1	1	1	2	2
72.5°	1	1	1	1	1	1	1	1	1
75°	1	1	1	1	1	1	1	1	1
77.5°	1	0	0	0	0	0	0	1	1
80°	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)