

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: H23254

Luminaire Tested: **H803HP-810C**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H23254
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H803HP-810C
Description: HALO 8" DIA RECESSED DOWNLIGHT
SPECULAR REFLECTOR
0 DEG AXIS IS PARALLEL TO LAMPS
Light Source: (2) F26DTT 26 WATTS 1800 LUMENS EACH
DOUBLE TWIN TUBE COMPACT FLUORESCENT
Ballast/Driver: -

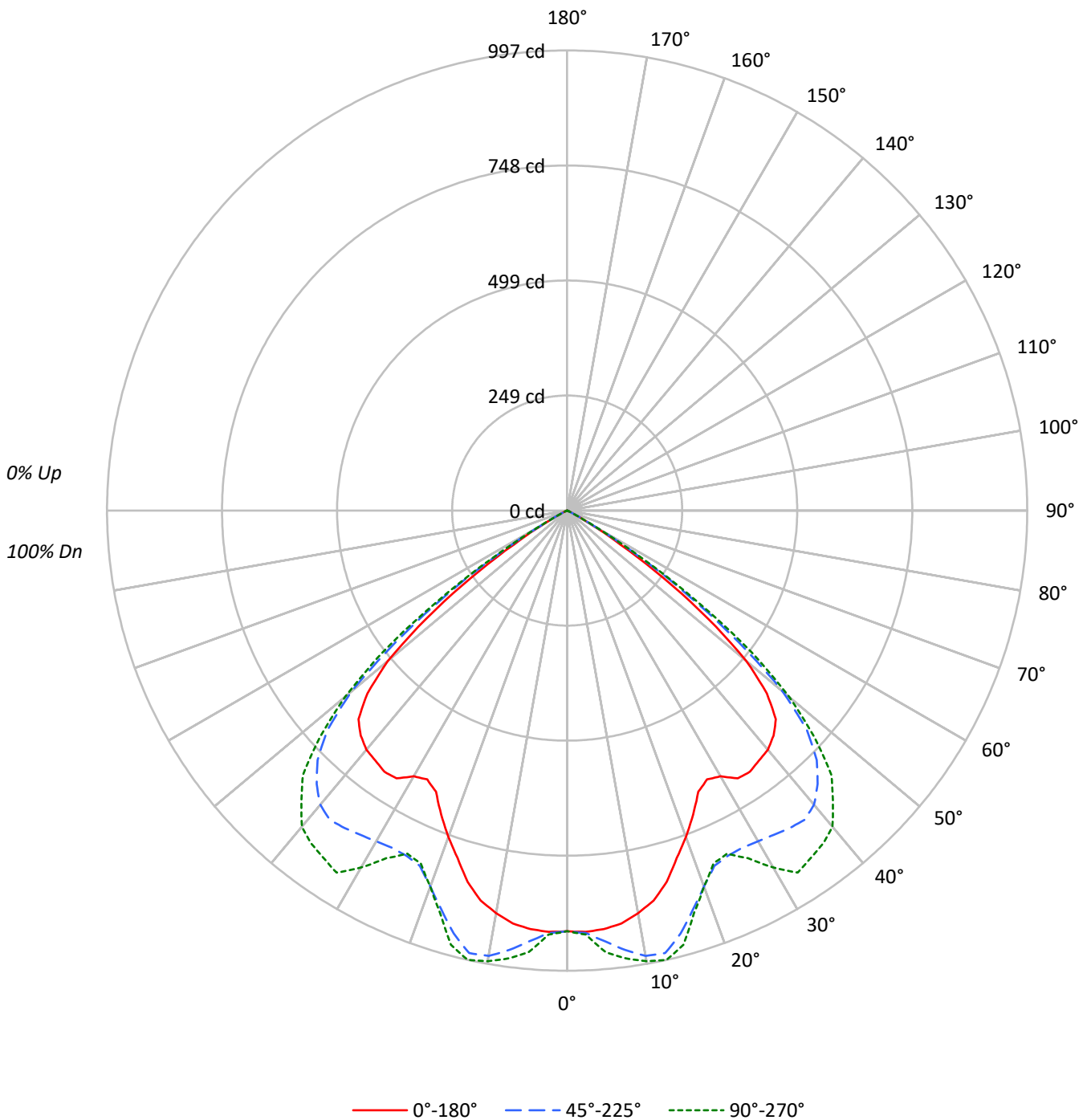
Summary

Lumens per Lamp: 1800 (2 lamps)
Luminaire Lumens: 2105.8 lumens
Efficiency: 58.5%
Efficacy: 39.0 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.53 / 1.52
Luminous Opening: (L: 0 ' x W: -0.58 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 54
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	70	70	70	70	68	68	68	68	65	65	65		62	62	62		60	60	60	58
1	65	63	62	60	64	62	60	59	60	58	57		57	56	55		55	55	54	53
2	61	57	54	51	59	56	53	51	54	52	50		52	50	49		51	49	48	46
3	56	51	48	45	55	51	47	44	49	46	43		47	45	43		46	44	42	41
4	52	46	42	39	51	46	42	39	44	41	38		43	40	38		42	39	37	36
5	48	42	37	34	47	41	37	34	40	36	34		39	36	33		38	35	33	32
6	45	38	33	30	44	37	33	30	36	33	30		36	32	30		35	32	29	28
7	42	35	30	27	41	34	30	27	33	29	27		32	29	26		32	29	26	25
8	39	32	27	24	38	31	27	24	31	27	24		30	26	24		29	26	24	23
9	36	29	25	22	35	29	24	22	28	24	21		27	24	21		27	24	21	20
10	34	27	22	20	33	27	22	20	26	22	20		25	22	19		25	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminous shape not found,		
5°	reference photometric report, or contact		
10°	the photometric lab for calculations.		
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	90.0	4.3	2.5
10°-20°	258.6	12.3	7.2
20°-30°	373.2	17.7	10.4
30°-40°	520.1	24.7	14.4
40°-50°	564.4	26.8	15.7
50°-60°	281.3	13.4	7.8
60°-70°	16.4	0.8	0.5
70°-80°	1.5	0.1	0.0
80°-90°	0.1	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°	721.8	34.3	20.1
0°-40°	1241.9	59.0	34.5
0°-60°	2087.7	99.1	58.0
0°-90°	2105.8	100.0	58.5
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°	2105.8	100.0	58.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	911	911	911	911	911	
5°	910	912	937	954	961	86
15°	833	906	949	971	974	232
25°	672	774	825	830	820	317
35°	691	785	840	901	919	429
45°	639	712	765	793	810	478
55°	254	292	319	326	347	234
65°	7	7	6	6	6	16
75°	2	2	1	1	1	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
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°
0°	911.4	911.4	911.4	911.4	911.4
2.5°	913.6	910.8	915.9	918.6	919.4
5°	910.1	911.9	936.6	954.3	960.7
7.5°	902.3	917.9	960.2	980.3	978.7
10°	885.6	926.5	979.8	996.2	991.4
12.5°	865.4	923.7	982.0	998.2	996.9
15°	832.8	905.9	948.7	971.1	973.7
17.5°	789.4	867.0	906.4	913.9	914.5
20°	752.2	816.0	866.5	865.8	867.2
22.5°	712.9	784.5	833.5	827.1	827.9
25°	672.2	774.0	824.7	829.6	820.0
27.5°	656.5	772.3	823.3	855.9	849.3
30°	664.6	775.6	827.4	889.6	893.1
32.5°	688.0	782.2	833.1	905.1	930.2
35°	690.6	785.4	839.8	900.6	919.4
37.5°	682.8	781.2	844.6	897.6	910.1
40°	676.5	769.6	832.2	877.9	894.2
42.5°	661.7	747.4	803.3	844.6	852.2
45°	639.4	711.8	764.7	793.0	810.0
47.5°	587.0	655.1	704.5	727.5	726.9
50°	507.2	566.4	609.7	627.3	627.3
52.5°	384.6	439.2	469.0	483.7	503.7
55°	254.2	292.5	319.4	326.4	347.2
57.5°	136.4	160.8	184.1	185.4	193.6
60°	64.2	72.2	72.4	74.5	76.0
62.5°	21.2	23.2	19.5	17.5	18.6
65°	6.8	7.1	5.8	5.8	5.9
67.5°	4.3	4.2	3.7	3.4	3.3
70°	2.9	2.9	2.7	2.5	2.4
72.5°	2.2	2.1	2.0	1.8	1.7
75°	1.6	1.5	1.4	1.2	1.1
77.5°	1.1	1.0	0.9	0.7	0.6
80°	0.7	0.7	0.5	0.4	0.3
82.5°	0.4	0.4	0.3	0.2	0.1
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)