

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: H23315

Luminaire Tested: **H803HP-810WB**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H23315
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H803HP-810WB
Description: HALO 8" DIA RECESSED DOWNLIGHT
SPECULAR REFLECTOR WITH WHITE BAFFLE
0 DEG AXIS IS PARALLEL TO LAMPS
Light Source: (2) F26DTT 26 WATTS 1800 LUMENS EACH
DOUBLE TWIN TUBE COMPACT FLUORESCENT
Ballast/Driver: -

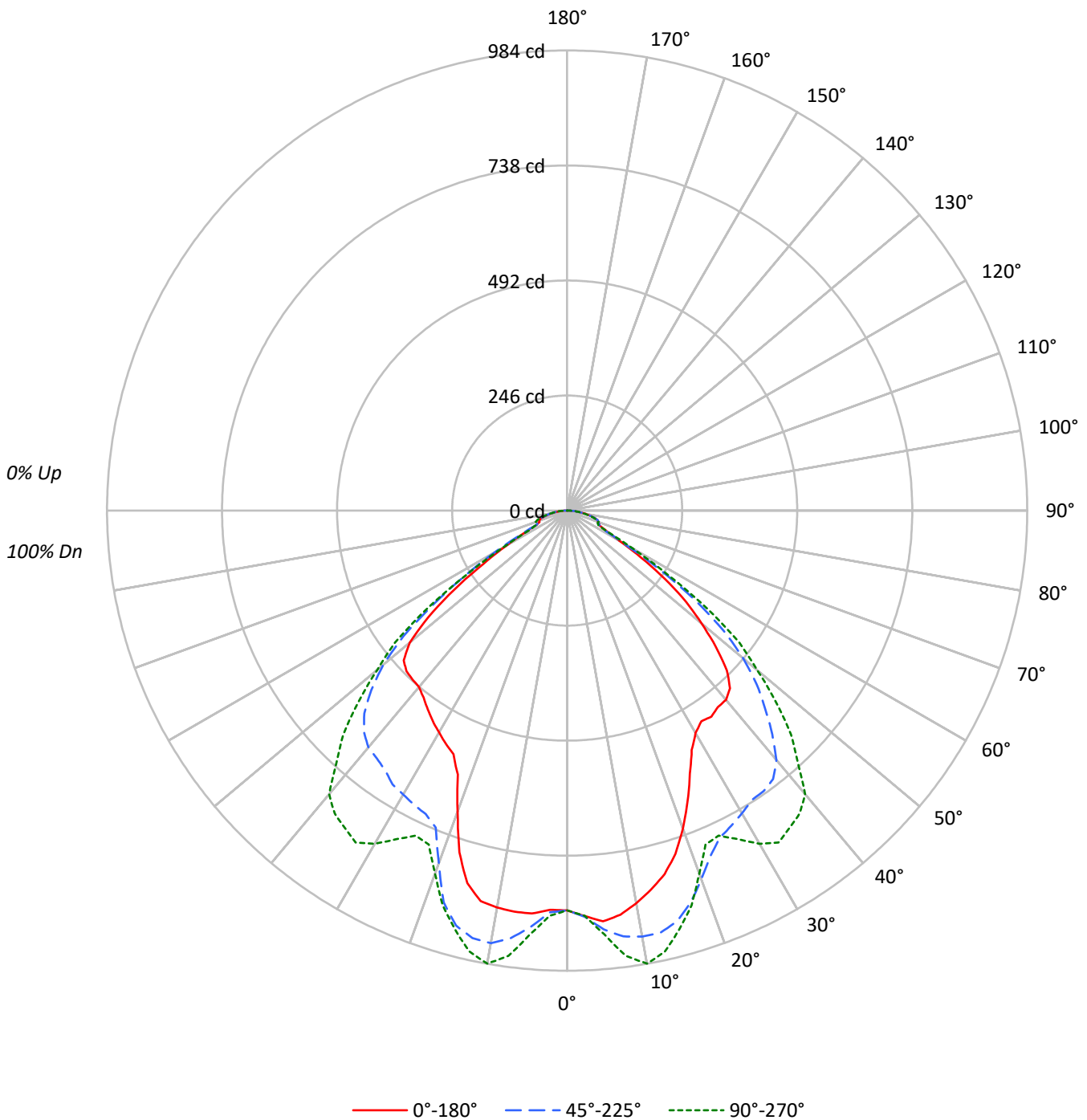
Summary

Lumens per Lamp: 1800 (2 lamps)
Luminaire Lumens: 2023.3 lumens
Efficiency: 56.2%
Efficacy: 35.5 lumens/watt
Spacing Criteria (0/90/45): 0.97 / 1.48 / 1.42
Luminous Opening: (L: 0 ' x W: -0.58 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 57
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				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	67	67	67	67	65	65	65	65	62	62	62		60	60	60		57	57	57	56
1	62	60	58	56	61	59	57	55	56	55	53		54	53	52		52	51	50	49
2	57	53	50	47	56	52	49	47	50	48	46		49	47	45		47	45	44	43
3	53	48	44	41	52	47	43	40	45	42	40		44	41	39		42	40	38	37
4	49	43	38	35	48	42	38	35	41	37	34		40	36	34		38	36	34	32
5	45	39	34	31	44	38	34	31	37	33	30		36	33	30		35	32	30	29
6	42	35	30	27	41	35	30	27	34	30	27		33	29	27		32	29	26	25
7	39	32	27	24	38	32	27	24	31	27	24		30	26	24		29	26	24	23
8	36	29	25	22	36	29	25	22	28	24	22		27	24	21		27	24	21	20
9	34	27	23	20	33	27	22	20	26	22	19		25	22	19		25	22	19	18
10	32	25	21	18	31	25	21	18	24	20	18		24	20	18		23	20	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
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°	86.4	4.3	2.4
10°-20°	248.2	12.3	6.9
20°-30°	338.1	16.7	9.4
30°-40°	438.5	21.7	12.2
40°-50°	454.8	22.5	12.6
50°-60°	291.6	14.4	8.1
60°-70°	87.3	4.3	2.4
70°-80°	58.5	2.9	1.6
80°-90°	20.0	1.0	0.6
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°	672.6	33.2	18.7
0°-40°	1111.1	54.9	30.9
0°-60°	1857.5	91.8	51.6
0°-90°	2023.3	100.0	56.2
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°	2023.3	100.0	56.2

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	855	855	855	855	855	
5°	882	899	910	894	865	83
15°	805	909	927	918	825	224
25°	621	772	767	716	575	288
35°	538	732	829	678	519	336
45°	483	599	677	613	486	363
55°	256	335	366	347	295	226
65°	77	77	74	72	72	85
75°	61	60	58	54	51	62
85°	19	19	19	18	17	20
90°	0	0	0	0	0	1
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°	112.5°	135°	157.5°	180°
0°	854.9	854.9	854.9	854.9	854.9	854.9	854.9	854.9	854.9
2.5°	867.8	865.3	869.3	867.9	867.2	867.1	860.0	854.5	854.4
5°	881.6	883.3	899.0	908.9	909.7	905.5	893.5	874.2	865.0
7.5°	871.7	884.6	918.5	948.4	960.2	958.8	922.1	880.1	865.0
10°	852.2	876.9	925.1	966.3	983.7	977.7	939.3	881.3	861.9
12.5°	830.0	869.0	924.1	951.8	965.9	969.9	936.3	881.6	855.2
15°	804.8	856.1	908.8	921.4	927.0	932.8	918.5	871.8	825.0
17.5°	769.5	833.4	878.6	885.2	884.7	887.6	878.4	831.6	766.0
20°	723.7	792.9	838.6	834.5	825.9	820.2	802.1	750.2	684.7
22.5°	673.0	747.0	799.8	795.3	772.9	758.2	733.7	681.9	611.0
25°	620.9	706.2	771.8	784.5	766.6	737.9	715.8	656.2	574.9
27.5°	577.1	682.0	760.0	807.6	792.1	753.4	709.1	643.7	562.1
30°	549.2	669.3	747.5	831.7	822.6	778.3	701.1	636.2	547.5
32.5°	533.9	660.4	734.4	830.2	841.5	786.8	694.4	631.1	534.5
35°	537.8	644.0	732.4	814.9	828.6	776.6	677.9	611.1	519.3
37.5°	529.6	622.1	723.7	792.8	816.7	771.5	668.3	589.2	504.4
40°	528.3	598.7	696.2	758.2	791.6	753.2	660.9	575.8	492.6
42.5°	515.5	575.9	649.1	701.7	729.5	715.4	643.2	563.5	489.6
45°	483.0	541.2	598.9	644.2	677.3	663.7	613.4	546.1	485.7
47.5°	431.3	499.1	549.9	586.6	605.7	607.0	568.2	516.1	474.0
50°	374.8	441.5	490.9	517.8	530.5	544.9	513.1	474.3	439.0
52.5°	320.9	371.1	421.6	441.9	464.2	461.4	441.6	413.3	374.6
55°	256.1	297.1	334.6	352.9	365.9	360.4	347.0	332.8	294.6
57.5°	187.5	203.8	234.2	241.3	254.2	252.6	259.5	250.8	212.7
60°	128.7	129.3	135.9	153.2	160.6	164.0	178.9	178.0	151.3
62.5°	94.9	91.0	85.4	87.5	91.8	95.2	111.6	116.2	102.5
65°	77.0	76.9	76.8	75.6	73.8	72.5	72.4	75.1	71.5
67.5°	73.8	73.8	73.5	72.5	70.7	68.9	66.7	64.8	64.2
70°	70.0	70.2	70.9	72.3	71.5	69.7	66.8	64.5	63.6
72.5°	68.9	69.0	69.0	68.6	66.9	65.3	62.9	60.9	60.6
75°	60.7	60.4	60.3	59.2	57.6	55.7	53.9	51.9	51.4
77.5°	49.8	48.5	47.6	47.4	46.6	45.5	43.9	42.0	41.6
80°	39.4	39.2	38.9	38.1	37.2	35.9	35.1	34.0	33.7
82.5°	28.5	28.6	28.7	28.3	28.3	27.2	26.1	25.5	25.4
85°	19.1	18.7	19.0	18.9	18.6	18.4	17.8	17.3	17.0
87.5°	8.8	9.1	9.5	9.3	9.5	9.1	9.1	8.7	8.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	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°	135°	157.5°	180°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)