

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: H23273

Luminaire Tested: **H803HP-804** 

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H23273
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H803HP-804 ☐
Description: HALO 8" DIA RECESSED DOWNLIGHT
SPECULAR REFLECTOR WITH HAZE CROSS BLADE
0 DEG AXIS IS PARALLEL TO LAMPS
Light Source: (2) F26DTT 26 WATTS 1800 LUMENS EACH
DOUBLE TWIN TUBE COMPACT FLUORESCENT
Ballast/Driver: -

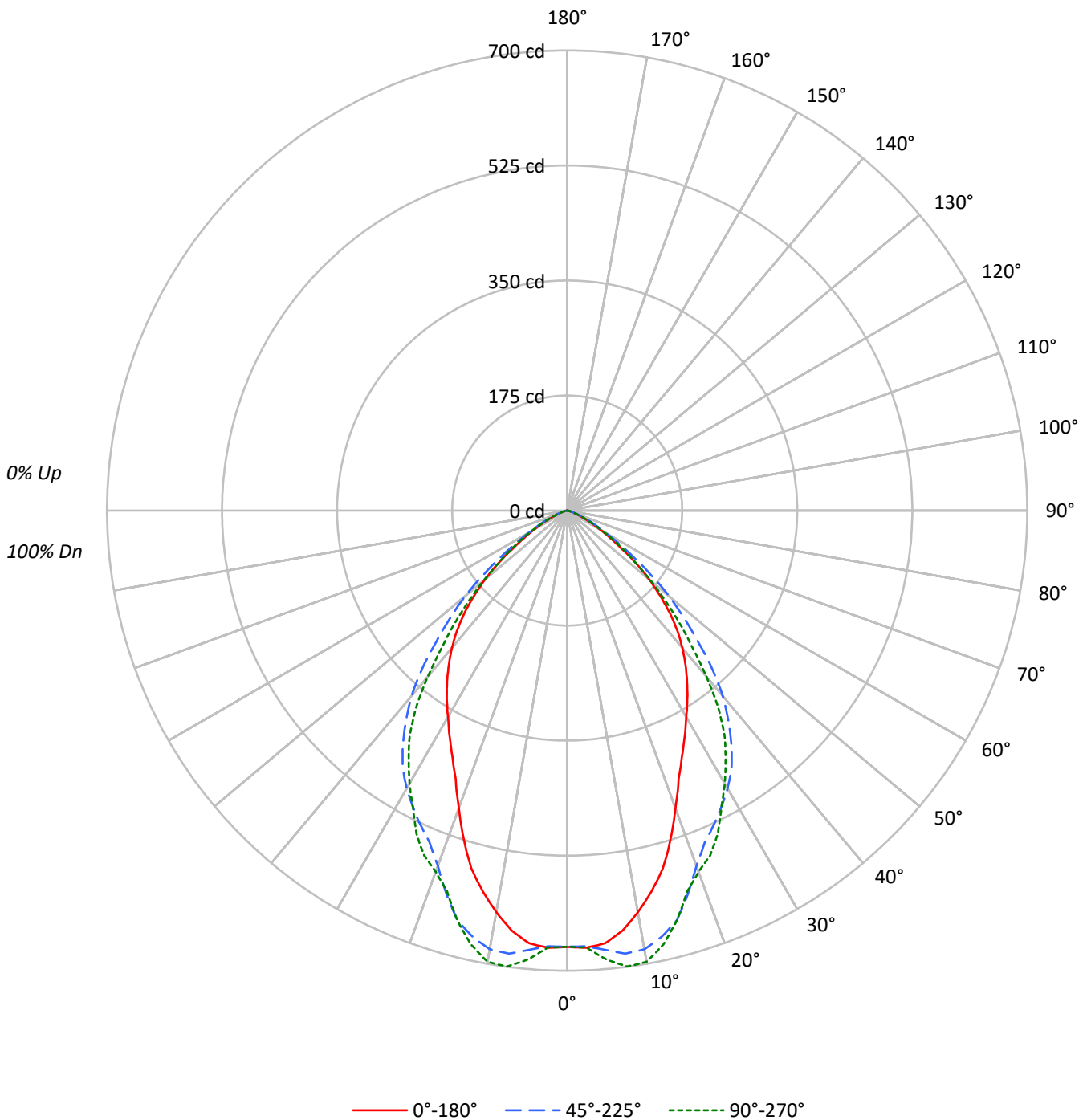
Summary

Lumens per Lamp: 1800 (2 lamps)
Luminaire Lumens: 1060.2 lumens
Efficiency: 29.4%
Efficacy: 18.6 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 1.1 / 1.18
Luminous Opening: (L: 0 ' x W: -0.56 ' 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

TEST NUMBER: H23273
CATALOG NUMBER: H803HP-804

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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	35	35	35	35	34	34	34	34	33	33	33	31	31	31	30	30	30	29	29	29	29
1	33	32	31	30	32	31	30	30	30	29	29	29	28	28	28	28	27	27	27	27	27
2	31	29	27	26	30	28	27	26	27	26	25	27	26	25	26	25	24	24	24	24	24
3	29	26	24	23	28	26	24	23	25	24	22	24	23	22	24	23	22	23	23	23	23
4	27	24	22	20	26	24	22	20	23	21	20	22	21	20	22	20	19	21	21	21	21
5	25	22	20	18	24	22	20	18	21	19	18	20	19	18	20	19	17	19	19	19	19
6	23	20	18	16	23	20	18	16	19	17	16	19	17	16	18	17	16	18	18	18	18
7	22	18	16	15	21	18	16	15	18	16	15	17	16	14	17	16	14	16	16	16	16
8	20	17	15	13	20	17	15	13	16	15	13	16	14	13	16	14	13	15	15	15	15
9	19	16	14	12	19	16	14	12	15	13	12	15	13	12	15	13	12	14	14	14	14
10	18	15	13	11	18	15	13	11	14	12	11	14	12	11	14	12	11	13	13	13	13

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°			



TEST NUMBER: H23273
 CATALOG NUMBER: H803HP-804

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	64.0	6.0	1.8
10°-20°	173.9	16.4	4.8
20°-30°	233.3	22.0	6.5
30°-40°	248.7	23.5	6.9
40°-50°	195.0	18.4	5.4
50°-60°	102.5	9.7	2.8
60°-70°	34.3	3.2	1.0
70°-80°	7.4	0.7	0.2
80°-90°	1.1	0.1	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°	471.2	44.4	13.1
0°-40°	719.9	67.9	20.0
0°-60°	1017.4	96.0	28.3
0°-90°	1060.2	100.0	29.4
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°	1060.2	100.0	29.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	664	664	664	664	664	
5°	661	659	671	681	685	62
15°	563	600	645	651	645	156
25°	413	476	528	548	542	191
35°	318	371	436	430	418	199
45°	221	246	281	255	241	169
55°	102	106	123	113	107	94
65°	29	32	37	33	32	31
75°	6	6	7	6	6	7
85°	1	1	1	1	1	1
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



TEST NUMBER: H23273
 CATALOG NUMBER: H803HP-804

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	663.5	663.5	663.5	663.5	663.5
2.5°	665.7	661.0	663.4	665.4	665.2
5°	660.8	658.8	670.7	681.3	685.3
7.5°	644.5	651.7	679.8	695.9	699.6
10°	620.4	640.0	677.6	695.0	697.0
12.5°	593.1	621.0	664.3	677.9	676.0
15°	563.3	599.9	644.9	651.4	645.3
17.5°	523.7	571.2	611.1	613.3	607.3
20°	482.0	535.5	575.0	583.0	584.6
22.5°	443.0	504.1	546.6	565.1	568.0
25°	413.0	476.1	527.7	547.6	542.3
27.5°	387.2	451.5	508.2	522.0	508.0
30°	362.5	427.5	488.1	496.2	479.6
32.5°	340.4	400.0	465.2	467.5	448.6
35°	318.2	371.1	435.9	429.9	417.6
37.5°	295.7	343.2	402.8	384.6	377.1
40°	272.5	313.1	368.3	337.5	329.7
42.5°	248.4	279.3	326.7	294.1	281.3
45°	221.2	245.6	281.2	255.2	241.3
47.5°	192.0	210.8	239.7	215.4	201.5
50°	162.8	174.3	202.7	178.1	165.9
52.5°	133.4	138.6	160.4	146.2	132.4
55°	102.0	106.3	122.9	113.2	107.0
57.5°	77.8	79.4	92.4	84.7	83.4
60°	58.0	58.9	67.1	61.4	62.7
62.5°	42.7	44.0	50.1	45.5	46.3
65°	28.9	31.8	36.8	32.6	31.6
67.5°	19.1	21.9	25.4	22.3	20.5
70°	12.6	14.4	16.8	14.6	13.4
72.5°	8.3	9.3	10.9	9.4	8.8
75°	5.5	5.9	6.9	6.1	5.7
77.5°	3.6	3.9	4.4	4.0	3.7
80°	2.3	2.4	2.7	2.5	2.4
82.5°	1.4	1.5	1.5	1.5	1.4
85°	0.8	0.8	0.8	0.8	0.8
87.5°	0.4	0.4	0.4	0.4	0.3
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



TEST NUMBER: H23273
CATALOG NUMBER: H803HP-804

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)