

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: H23317

Luminaire Tested: **H800HP-804P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H23317
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H800HP-804P
Description: HALO 8" DIA RECESSED DOWNLIGHT
SPECULAR UPPER REFLECTOR
WHITE LOWER CROSS BLADE REFLECTOR
0 DEG AXIS IS PARALLEL TO LAMPS
Light Source: (2) F13TT 13 WATTS 900 LUMENS EACH
TWIN TUBE COMPACT FLUORESCENT
Ballast/Driver: -

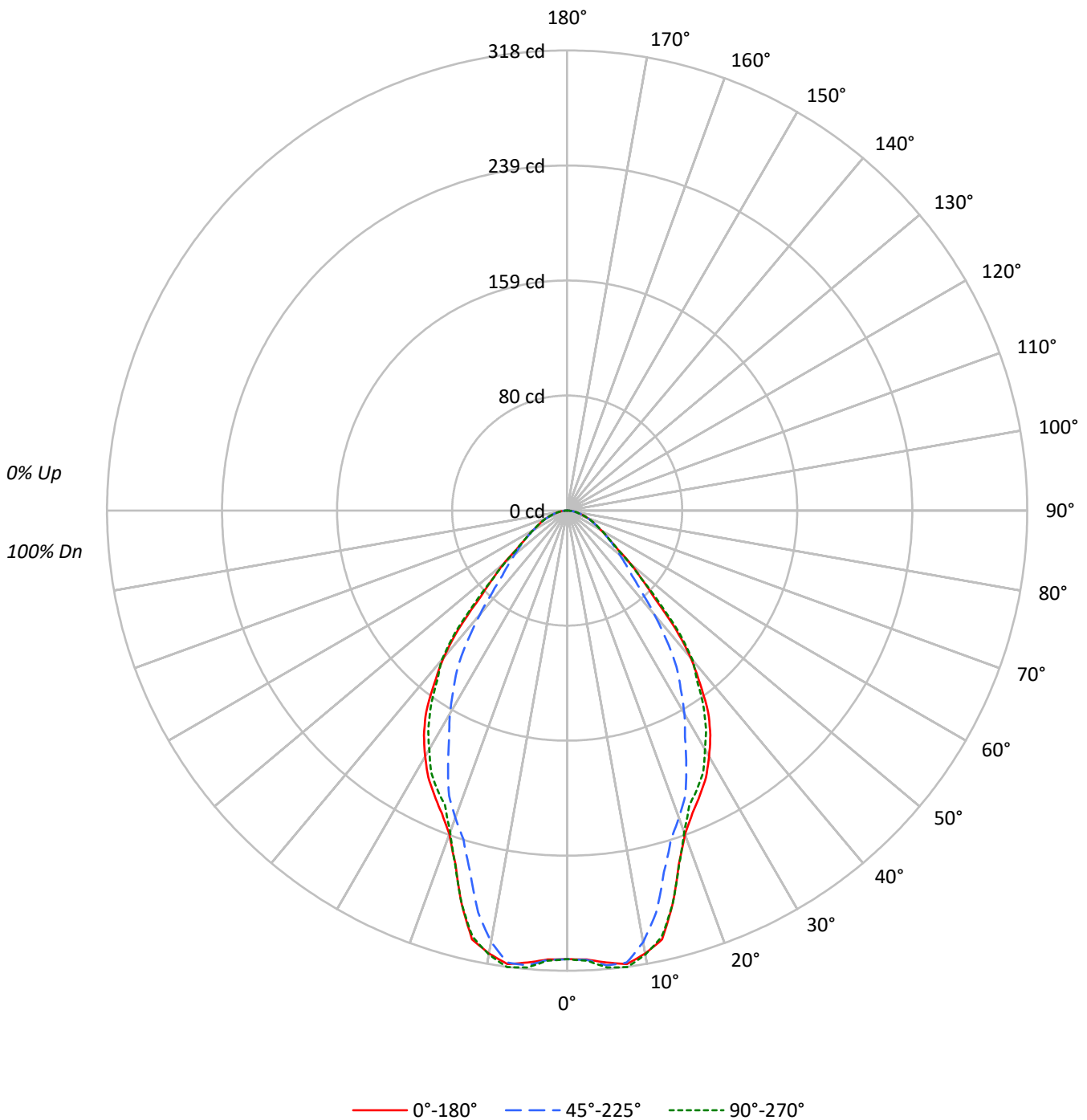
Summary

Lumens per Lamp: 900 (2 lamps)
Luminaire Lumens: 419.8 lumens
Efficiency: 23.3%
Efficacy: 13.1 lumens/watt
Spacing Criteria (0/90/45): 0.97 / 0.95 / 0.97
Luminous Opening: (L: 0 ' x W: -0.56 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 32
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

TEST NUMBER: H23317
CATALOG NUMBER: H800HP-804P

Luminous Intensity Polar Plot





TEST NUMBER: H23317
 CATALOG NUMBER: H800HP-804P

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	28	28	28	28	27	27	27	27	26	26	26	25	25	25	24	24	24	23
1	26	25	24	24	25	25	24	23	24	23	23	23	22	22	22	22	21	21
2	24	23	22	20	24	22	21	20	22	21	20	21	20	19	20	20	19	19
3	23	21	19	18	22	20	19	18	20	18	18	19	18	17	19	18	17	17
4	21	19	17	16	21	19	17	16	18	17	16	18	16	15	17	16	15	15
5	20	17	16	14	19	17	15	14	17	15	14	16	15	14	16	15	14	13
6	19	16	14	13	18	16	14	13	15	14	13	15	14	13	15	14	13	12
7	17	15	13	12	17	15	13	12	14	13	12	14	13	12	14	12	12	11
8	16	14	12	11	16	14	12	11	13	12	11	13	12	11	13	12	11	10
9	15	13	11	10	15	13	11	10	12	11	10	12	11	10	12	11	10	9
10	15	12	10	9	14	12	10	9	12	10	9	11	10	9	11	10	9	9

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: H23317
 CATALOG NUMBER: H800HP-804P

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	29.9	7.1	1.7
10°-20°	75.8	18.1	4.2
20°-30°	95.0	22.6	5.3
30°-40°	92.0	21.9	5.1
40°-50°	59.5	14.2	3.3
50°-60°	33.3	7.9	1.8
60°-70°	20.3	4.8	1.1
70°-80°	10.8	2.6	0.6
80°-90°	3.3	0.8	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°	200.6	47.8	11.1
0°-40°	292.7	69.7	16.3
0°-60°	385.4	91.8	21.4
0°-90°	419.8	100.0	23.3
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°	419.8	100.0	23.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	310	310	310	310	310	
5°	314	314	316	316	317	30
15°	282	274	259	274	281	78
25°	217	212	195	206	212	100
35°	170	153	132	147	164	104
45°	85	75	63	72	90	69
55°	37	36	36	36	37	34
65°	20	20	20	20	21	20
75°	10	10	10	10	10	11
85°	3	3	3	3	3	3
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: H23317
 CATALOG NUMBER: H800HP-804P

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	310.0	310.0	310.0	310.0	310.0
2.5°	310.5	309.8	310.8	311.0	311.3
5°	313.5	313.7	315.5	316.4	317.0
7.5°	316.1	314.3	315.1	316.6	318.2
10°	310.8	304.3	302.7	307.1	311.5
12.5°	303.5	292.9	284.5	296.5	301.8
15°	281.5	274.4	258.6	274.2	281.4
17.5°	256.4	253.2	238.3	249.1	257.0
20°	237.9	238.3	225.8	234.6	236.3
22.5°	226.3	225.7	213.3	222.0	220.5
25°	217.1	211.6	194.7	206.5	212.5
27.5°	207.8	196.4	176.5	192.2	203.7
30°	196.2	183.6	162.0	177.1	190.6
32.5°	184.2	171.0	146.0	164.9	178.6
35°	169.9	153.4	131.8	147.3	163.9
37.5°	150.9	131.7	112.8	128.3	147.1
40°	133.1	110.8	93.8	107.6	135.0
42.5°	111.0	91.8	76.0	88.0	114.6
45°	84.9	75.3	63.2	71.9	89.7
47.5°	69.7	64.1	54.7	61.4	69.8
50°	57.7	51.2	47.3	50.9	55.9
52.5°	44.2	42.3	41.4	42.5	43.6
55°	36.8	36.0	36.1	36.2	36.9
57.5°	31.5	31.0	31.2	31.2	31.8
60°	26.9	26.6	26.9	26.7	27.2
62.5°	23.5	23.2	23.5	23.4	23.8
65°	20.5	20.3	20.1	20.4	20.7
67.5°	17.6	17.5	17.5	17.5	17.7
70°	14.9	14.7	14.8	14.8	15.0
72.5°	12.4	12.3	12.3	12.4	12.5
75°	10.2	10.1	10.0	10.1	10.3
77.5°	8.0	7.8	7.9	7.9	7.9
80°	6.2	6.1	6.1	6.2	6.3
82.5°	4.6	4.4	4.4	4.5	4.5
85°	3.0	2.9	2.9	2.9	3.0
87.5°	1.6	1.6	1.5	1.6	1.6
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: H23317
CATALOG NUMBER: H800HP-804P

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)