

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: H23287

Luminaire Tested: **H802HP-804P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H23287
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H802HP-804P
Description: HALO 8" DIA RECESSED DOWNLIGHT
SPECULAR REFLECTOR WITH WHITE CROSS BLADE
0 DEG AXIS IS PARALLEL TO LAMPS
Light Source: (2) F18DTT 18 WATTS 1250 LUMENS EACH
DOUBLE TWIN TUBE COMPACT FLUORESCENT
Ballast/Driver: -

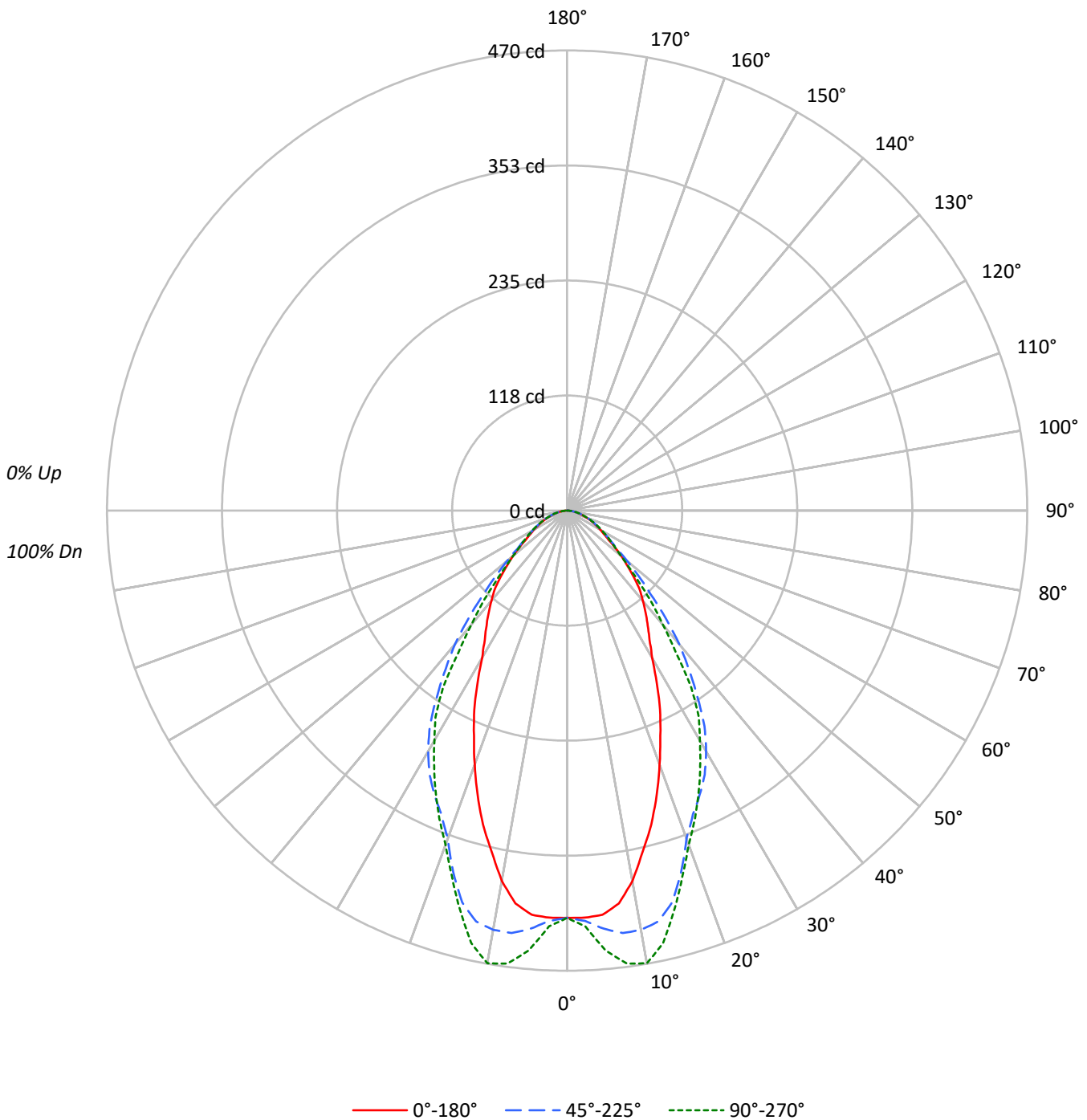
Summary

Lumens per Lamp: 1250 (2 lamps)
Luminaire Lumens: 602.8 lumens
Efficiency: 24.1%
Efficacy: 11.6 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.03 / 1.07
Luminous Opening: (L: 0 ' x W: -0.56 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 52
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: H23287
CATALOG NUMBER: H802HP-804P

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminous shape not found, reference photometric report, or contact the photometric lab for calculations.		
5°			
10°			
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°	41.1	6.8	1.6
10°-20°	110.0	18.2	4.4
20°-30°	137.2	22.8	5.5
30°-40°	129.3	21.4	5.2
40°-50°	86.0	14.3	3.4
50°-60°	49.2	8.2	2.0
60°-70°	30.2	5.0	1.2
70°-80°	15.6	2.6	0.6
80°-90°	4.2	0.7	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°	288.3	47.8	11.5
0°-40°	417.6	69.3	16.7
0°-60°	552.8	91.7	22.1
0°-90°	602.8	100.0	24.1
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°	602.8	100.0	24.1

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	416	416	416	416	416	
5°	414	419	429	443	451	39
15°	332	369	414	426	423	92
25°	224	279	320	324	318	102
35°	144	195	232	228	221	90
45°	96	110	120	110	104	74
55°	51	52	55	55	54	47
65°	30	30	31	31	31	29
75°	14	14	15	15	15	15
85°	4	4	4	4	4	4
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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 CATALOG NUMBER: H802HP-804P

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	416.0	416.0	416.0	416.0	416.0
2.5°	416.2	416.4	419.4	423.4	425.1
5°	414.5	418.9	428.7	443.4	450.9
7.5°	404.6	411.7	435.2	458.3	466.7
10°	384.0	400.5	434.8	464.4	469.5
12.5°	356.5	386.3	429.9	454.1	452.5
15°	331.9	368.7	414.3	426.2	422.6
17.5°	304.2	345.5	387.2	395.1	391.6
20°	276.0	322.0	356.3	367.3	363.0
22.5°	248.7	299.6	335.8	346.1	340.9
25°	224.3	278.7	320.3	323.8	317.7
27.5°	197.9	257.7	304.2	307.5	294.3
30°	173.4	237.5	283.8	284.8	271.1
32.5°	156.5	215.8	261.0	261.3	250.2
35°	143.6	194.7	231.9	228.0	221.2
37.5°	131.7	172.5	203.8	188.9	182.2
40°	120.4	150.6	178.1	155.7	152.2
42.5°	109.8	129.8	148.6	131.6	127.9
45°	96.2	109.7	120.2	109.9	104.5
47.5°	83.4	90.2	99.0	89.4	85.2
50°	72.3	74.5	79.9	76.8	71.6
52.5°	60.8	61.8	64.1	65.3	61.3
55°	51.2	52.0	54.8	55.0	54.0
57.5°	44.1	45.0	47.2	47.2	47.5
60°	39.0	39.0	40.6	40.5	41.2
62.5°	34.0	34.1	35.4	35.6	36.3
65°	29.5	29.5	30.9	30.7	31.1
67.5°	24.9	25.2	26.2	26.3	26.4
70°	20.9	21.2	22.0	22.1	22.1
72.5°	17.3	17.5	18.2	18.3	18.4
75°	14.0	14.2	14.8	14.8	14.8
77.5°	11.1	11.2	11.6	11.6	11.6
80°	8.3	8.4	8.7	8.7	8.8
82.5°	5.8	5.9	6.0	6.1	6.0
85°	3.5	3.6	3.7	3.7	3.7
87.5°	1.6	1.6	1.7	1.6	1.7
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: H23287
CATALOG NUMBER: H802HP-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)