

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: H23316

Luminaire Tested: **H803HP-804P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H23316
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H803HP-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) F26DTT 26 WATTS 1800 LUMENS EACH
DOUBLE TWIN TUBE COMPACT FLUORESCENT
Ballast/Driver: -

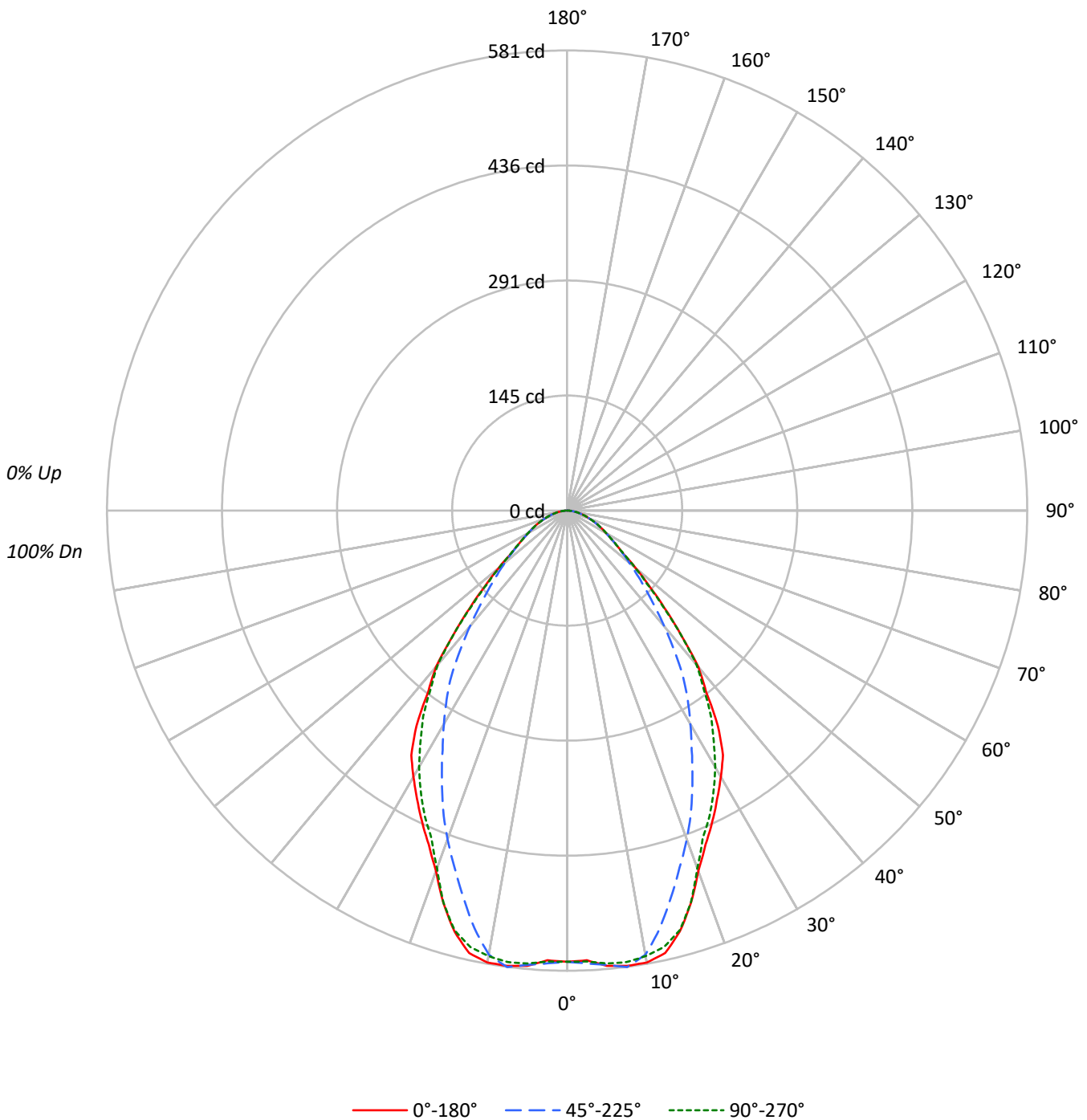
Summary

Lumens per Lamp: 1800 (2 lamps)
Luminaire Lumens: 833.0 lumens
Efficiency: 23.1%
Efficacy: 14.6 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.02 / 0.99
Luminous Opening: (L: 0 ' x W: -0.56 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 57
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	50	30	10	0	
RCR																						
0	28	28	28	28	27	27	27	27	26	26	26	25	25	25	24	24	24	24	24	24	23	
1	26	25	24	23	25	24	24	23	23	23	22	23	22	22	22	21	21	21	21	21	21	
2	24	23	21	20	23	22	21	20	21	20	20	21	20	19	20	19	19	19	19	19	18	
3	22	20	19	18	22	20	19	18	19	18	17	19	18	17	18	17	17	17	17	17	16	
4	21	19	17	16	20	18	17	16	18	16	15	17	16	15	17	16	15	15	15	15	15	
5	19	17	15	14	19	17	15	14	16	15	14	16	15	14	16	14	14	14	14	14	13	
6	18	16	14	13	18	15	14	13	15	14	13	15	13	12	14	13	12	12	12	12	12	
7	17	14	13	12	17	14	13	12	14	13	11	14	12	11	13	12	11	11	11	11	11	
8	16	13	12	11	16	13	12	11	13	12	11	13	11	10	12	11	10	10	10	10	10	
9	15	13	11	10	15	12	11	10	12	11	10	12	11	10	12	10	10	10	10	10	9	
10	14	12	10	9	14	12	10	9	11	10	9	11	10	9	11	10	9	9	9	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°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	55.0	6.6	1.5
10°-20°	147.3	17.7	4.1
20°-30°	187.4	22.5	5.2
30°-40°	180.1	21.6	5.0
40°-50°	122.7	14.7	3.4
50°-60°	69.5	8.3	1.9
60°-70°	42.4	5.1	1.2
70°-80°	22.1	2.7	0.6
80°-90°	6.5	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°	389.7	46.8	10.8
0°-40°	569.8	68.4	15.8
0°-60°	762.0	91.5	21.2
0°-90°	833.0	100.0	23.1
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°	833.0	100.0	23.1

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	570	570	570	570	570	
5°	577	577	576	574	574	55
15°	550	533	506	526	549	153
25°	434	425	374	403	425	200
35°	332	298	255	287	317	204
45°	174	163	140	155	172	136
55°	76	76	76	75	76	70
65°	43	42	42	42	43	43
75°	21	21	21	21	21	22
85°	6	6	6	6	6	6
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°	569.8	569.8	569.8	569.8	569.8
2.5°	568.3	571.2	572.2	571.6	569.8
5°	576.9	577.4	575.8	574.2	574.0
7.5°	579.8	582.2	581.4	579.5	575.0
10°	579.3	575.6	569.4	571.9	571.1
12.5°	572.3	558.9	540.4	553.9	564.6
15°	550.1	532.8	506.0	525.9	548.7
17.5°	519.6	506.1	472.5	493.0	519.0
20°	484.3	479.6	441.8	461.5	480.7
22.5°	456.6	452.9	409.2	430.8	447.6
25°	433.6	425.0	374.1	403.2	425.4
27.5°	410.3	397.3	340.7	375.3	400.2
30°	388.0	367.4	311.1	348.2	374.0
32.5°	366.2	335.2	283.3	321.0	344.2
35°	331.7	298.4	254.9	287.0	316.7
37.5°	288.2	263.0	221.4	250.1	282.6
40°	257.4	226.4	190.8	217.3	254.3
42.5°	212.4	192.6	162.8	183.1	211.8
45°	173.8	162.8	139.6	154.6	171.5
47.5°	140.0	132.7	119.4	128.9	136.8
50°	113.4	108.1	102.9	108.0	111.1
52.5°	89.9	90.1	87.7	89.2	89.6
55°	75.9	75.7	75.6	75.0	76.3
57.5°	65.6	64.7	65.1	64.6	65.7
60°	56.3	55.8	56.3	55.7	56.6
62.5°	49.8	49.2	49.6	49.0	49.8
65°	42.6	42.0	42.4	41.9	43.0
67.5°	36.4	36.3	36.3	36.2	36.7
70°	30.9	30.5	30.4	30.4	30.9
72.5°	25.6	25.4	25.4	25.3	25.6
75°	20.9	20.8	20.7	20.7	20.9
77.5°	16.4	16.3	16.2	16.2	16.2
80°	12.6	12.5	12.4	12.4	12.6
82.5°	9.1	9.0	8.9	8.9	9.0
85°	5.8	5.8	5.7	5.7	5.8
87.5°	3.0	3.0	2.9	2.9	3.0
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)