

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: H26034

Luminaire Tested: **H2592**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-46-04  
Report Number: H26034  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H2592  
Description: HALO TAPER WALL MOUNT SCONCE  
INCANDESCENT VERSION  
Light Source: 100A19 100 WATTS 1750 LUMENS  
A19 INSIDE FROSTED  
Ballast/Driver: -

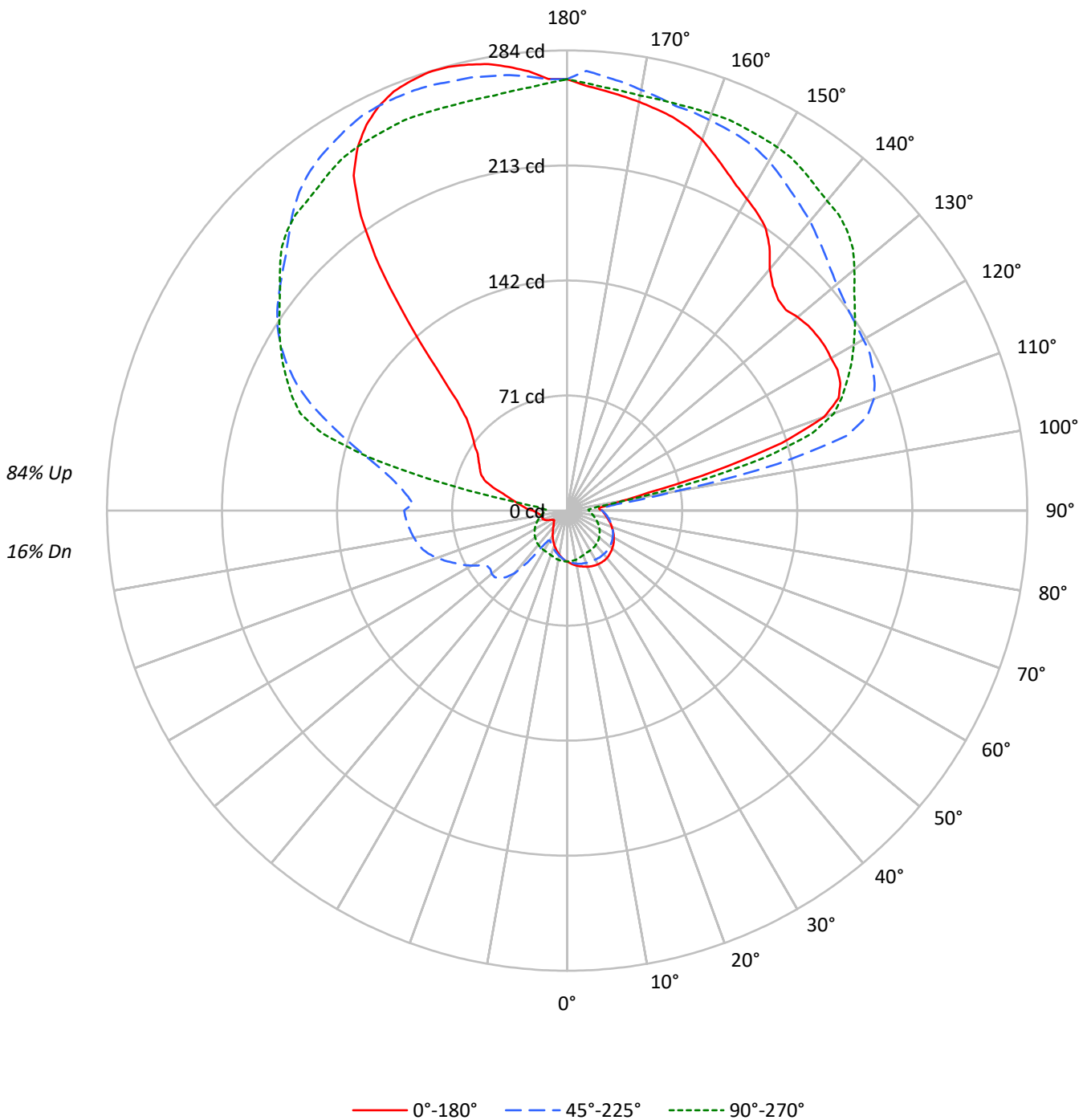
**Summary**

Lumens per Lamp: 1750 (1 lamp)  
Luminaire Lumens: 1223.8 lumens  
Efficiency: 69.9%  
Efficacy: 12.2 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.38 / 2.04  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Semi-Indirect

Input Watts (W): 100  
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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	69	69	69	69	61	61	61	61	45	45	45	30	30	30	17	17	17	11	11	11
1	62	59	56	53	54	51	49	47	38	36	35	25	24	23	14	13	13	7	7	7
2	56	51	46	43	49	44	41	38	33	30	28	22	20	19	11	11	10	5	5	5
3	51	44	39	35	44	39	34	31	28	25	23	19	17	15	10	9	8	4	4	4
4	46	39	33	29	40	34	29	26	25	22	19	17	15	13	9	8	7	3	3	3
5	42	34	29	25	37	30	25	22	22	19	16	15	13	11	8	7	6	3	3	3
6	39	31	25	21	34	27	22	19	20	16	14	13	11	9	7	6	5	2	2	2
7	36	27	22	18	31	24	19	16	18	14	12	12	10	8	6	5	4	2	2	2
8	33	25	19	16	29	22	17	14	16	13	11	11	9	7	6	5	4	2	2	2
9	31	22	17	14	27	20	15	12	15	11	9	10	8	6	5	4	3	2	2	2
10	28	20	15	12	25	18	14	11	13	10	8	9	7	6	5	4	3	1	1	1

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
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°	3.0	0.2	0.2
10°-20°	8.6	0.7	0.5
20°-30°	13.3	1.1	0.8
30°-40°	18.2	1.5	1.0
40°-50°	24.0	2.0	1.4
50°-60°	26.9	2.2	1.5
60°-70°	30.3	2.5	1.7
70°-80°	33.0	2.7	1.9
80°-90°	34.2	2.8	2.0
90°-100°	39.8	3.3	2.3
100°-110°	121.1	9.9	6.9
110°-120°	168.1	13.7	9.6
120°-130°	167.7	13.7	9.6
130°-140°	162.2	13.3	9.3
140°-150°	152.9	12.5	8.7
150°-160°	120.3	9.8	6.9
160°-170°	75.1	6.1	4.3
170°-180°	25.4	2.1	1.5
0°-30°	24.8	2.0	1.4
0°-40°	43.0	3.5	2.5
0°-60°	93.9	7.7	5.4
0°-90°	191.3	15.6	10.9
90°-120°	329.0	26.9	18.8
90°-150°	811.7	66.3	46.4
90°-180°	1032.0	84.3	59.0
0°-180°	1223.8	100.0	69.9

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	31	31	31	31	31	
5°	33	32	31	30	30	3
15°	36	34	30	27	25	10
25°	38	35	29	23	20	17
35°	38	35	28	28	15	24
45°	37	35	27	59	12	29
55°	35	34	24	60	10	31
65°	31	31	22	77	14	31
75°	27	28	18	92	16	29
85°	23	24	15	99	18	19
90°	22	22	13	101	21	12
95°	20	22	15	98	27	20
105°	94	179	126	128	41	102
115°	186	208	191	184	59	182
125°	188	213	217	218	70	169
135°	184	225	244	243	96	144
145°	213	241	255	266	222	132
155°	232	254	260	276	275	107
165°	252	258	260	274	284	71
175°	260	269	262	269	272	25
180°	266	266	266	266	266	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4
2.5°	32.3	32.1	31.8	31.6	31.4	30.9	30.7	30.7	30.9
5°	33.1	32.9	32.3	31.7	31.2	30.2	29.9	29.8	29.9
7.5°	33.8	33.5	32.8	31.9	31.1	29.8	29.0	28.7	28.8
10°	34.5	34.1	33.3	32.0	30.8	29.2	28.3	27.7	27.7
12.5°	35.2	34.7	33.7	32.2	30.6	28.7	27.5	26.8	26.5
15°	35.7	35.2	34.0	32.1	30.1	28.0	26.6	25.5	25.3
17.5°	36.3	35.7	34.1	32.0	29.6	27.3	25.7	24.5	24.1
20°	36.9	36.1	34.4	32.0	29.3	26.6	24.8	23.4	22.9
22.5°	37.3	36.6	34.6	31.9	28.9	26.0	23.8	22.2	21.6
25°	37.7	36.9	34.7	31.8	28.6	25.4	22.9	21.0	20.4
27.5°	38.0	37.2	34.8	31.8	28.5	24.9	22.0	19.9	19.1
30°	38.2	37.3	34.9	31.9	28.4	24.5	21.3	18.7	17.8
32.5°	38.3	37.4	35.0	32.0	28.3	24.1	21.8	17.6	16.5
35°	38.4	37.4	35.2	32.1	28.1	23.7	21.8	16.5	15.3
37.5°	38.4	37.3	35.1	32.1	27.9	23.2	20.3	15.6	14.2
40°	38.2	37.2	35.1	32.0	27.6	22.7	20.3	14.8	13.2
42.5°	37.9	37.0	35.1	31.9	27.3	22.2	19.8	14.2	12.4
45°	37.4	36.6	34.9	31.7	26.9	21.8	19.8	13.6	11.7
47.5°	37.0	36.3	34.7	31.5	26.3	21.2	19.8	13.3	11.1
50°	36.3	35.8	34.4	31.0	25.8	20.8	19.8	13.1	10.7
52.5°	35.7	35.2	34.0	30.6	25.2	20.2	19.8	13.0	10.1
55°	35.0	34.7	33.6	30.1	24.5	19.7	19.8	12.9	10.1
57.5°	34.2	34.0	33.1	29.5	23.8	19.3	19.8	13.0	10.5
60°	33.3	33.3	32.5	28.9	23.1	18.8	19.8	13.5	11.3
62.5°	32.4	32.7	31.9	28.2	22.3	18.4	19.8	14.1	12.6
65°	31.4	31.9	31.2	27.4	21.5	18.1	19.8	14.8	13.9
67.5°	30.3	31.1	30.4	26.6	20.6	17.9	19.8	15.7	15.0
70°	29.3	30.3	29.6	25.7	19.7	17.7	19.8	16.7	15.7
72.5°	28.3	29.4	28.7	24.8	18.7	17.6	19.8	18.3	16.0
75°	27.2	28.5	27.7	23.8	17.9	17.7	19.8	20.4	15.9
77.5°	26.0	27.6	26.8	22.8	17.0	17.8	19.8	22.8	16.0
80°	25.0	26.6	25.7	21.8	16.2	18.0	19.8	25.5	16.4
82.5°	24.0	25.6	24.8	20.7	15.4	18.4	19.8	27.4	17.2
85°	23.1	24.6	23.7	19.6	14.6	19.0	19.8	28.9	18.2
87.5°	22.4	23.6	22.7	18.5	14.0	20.3	19.8	30.5	19.5
90°	21.6	22.6	21.6	17.4	13.4	22.6	100.6	32.1	21.1
92.5°	19.9	20.8	20.6	16.8	13.1	21.4	95.2	35.7	24.7
95°	19.7	21.0	22.4	18.1	15.1	25.9	98.5	38.1	27.0
97.5°	26.1	28.6	30.8	24.2	19.9	38.1	103.0	40.3	29.9
100°	34.4	39.9	66.5	44.0	36.9	71.4	109.0	43.6	32.9
102.5°	51.4	65.8	133.2	92.5	79.0	119.6	117.0	47.7	36.6
105°	94.3	117.7	178.9	142.4	126.0	157.1	128.1	52.9	41.4
107.5°	138.9	160.1	194.2	174.0	158.5	174.8	141.3	58.0	48.1
110°	168.6	180.7	201.4	188.8	175.2	182.9	155.5	61.4	54.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	181.4	188.2	205.4	197.7	183.7	189.3	170.8	63.3	57.4
115°	186.0	190.6	208.1	204.2	190.8	196.2	183.9	64.9	59.3
117.5°	188.1	191.4	210.5	209.8	197.9	202.9	194.8	67.0	61.1
120°	188.1	191.8	211.1	214.9	204.3	209.8	204.1	69.7	63.2
122.5°	188.7	192.1	211.8	219.6	210.6	216.8	212.0	72.9	65.5
125°	188.3	191.9	212.9	224.9	216.7	224.2	218.3	76.9	69.5
127.5°	187.5	190.9	214.8	231.7	223.3	231.9	223.7	81.9	73.2
130°	185.7	189.1	217.1	239.7	231.4	239.6	229.3	88.3	77.9
132.5°	183.2	190.2	220.5	247.1	239.2	245.3	235.1	99.2	84.2
135°	184.2	192.7	224.7	252.7	244.4	250.1	242.6	122.7	96.0
137.5°	188.0	195.9	228.7	255.7	247.9	253.8	250.4	155.6	119.5
140°	194.5	199.9	233.2	258.2	249.6	257.8	257.1	190.3	153.0
142.5°	205.2	204.4	236.8	260.6	252.1	261.7	262.2	224.0	190.6
145°	213.4	209.3	240.7	262.0	255.2	265.5	266.2	247.4	221.8
147.5°	218.1	214.2	244.9	263.7	257.9	268.4	269.1	260.3	245.2
150°	222.0	218.8	249.0	264.3	259.1	269.7	272.1	266.9	258.7
152.5°	226.2	223.9	252.0	264.9	259.8	270.5	274.5	271.4	268.4
155°	231.6	229.9	254.1	264.9	260.3	270.8	275.5	274.7	275.2
157.5°	237.5	236.1	255.4	264.1	261.1	270.7	275.9	277.6	279.9
160°	243.6	241.1	256.5	264.0	260.6	270.2	276.0	279.3	282.2
162.5°	248.1	245.2	257.9	263.4	260.2	269.1	275.5	279.8	283.7
165°	251.5	248.7	258.5	262.9	259.8	268.2	274.2	279.8	283.5
167.5°	253.8	251.3	261.2	264.2	260.0	267.1	273.8	279.4	281.9
170°	256.1	254.1	263.6	265.1	260.1	266.6	272.3	277.1	279.8
172.5°	258.2	256.3	266.4	267.3	261.1	266.0	271.1	275.0	276.2
175°	260.3	258.6	268.8	269.6	262.2	265.7	268.8	271.3	272.1
177.5°	262.5	260.8	271.6	271.7	264.1	264.6	266.4	266.8	266.6
180°	266.2	266.2	266.2	266.2	266.2	266.2	266.2	266.2	266.2

(END OF REPORT)