

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: H26054

Luminaire Tested: **H2515**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-46-04  
Report Number: H26054  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H2515  
Description: HALO 8" DIA SURFACE MOUNT  
SPECULAR REFLECTOR WITH WHITE LENS  
Light Source: (2) F13TT 13 WATTS 900 LUMENS EACH  
TWIN TUBE COMPACT FLUORESCENT  
Ballast/Driver: -

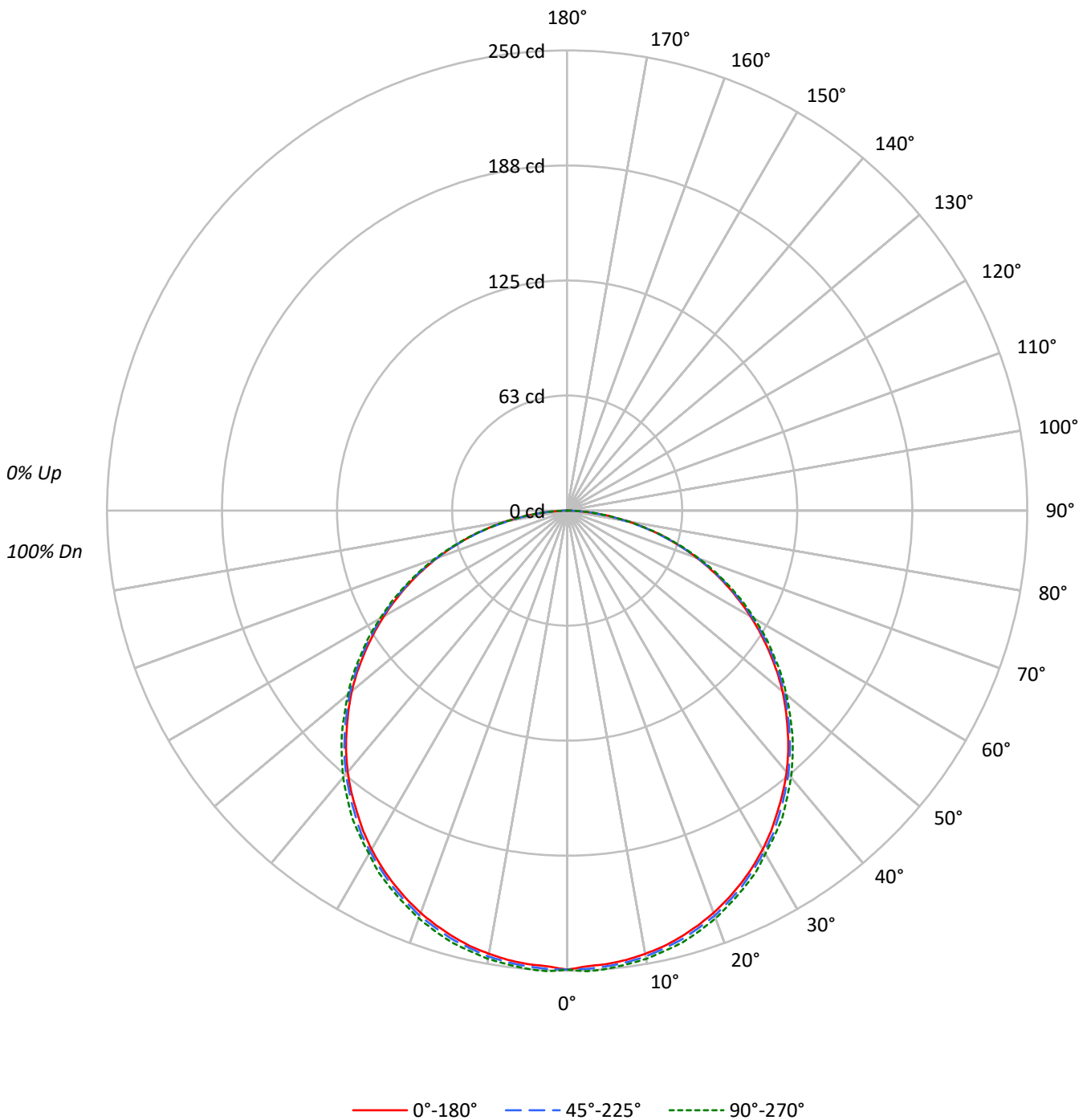
**Summary**

Lumens per Lamp: 900 (2 lamps)  
Luminaire Lumens: 742.3 lumens  
Efficiency: 41.2%  
Efficacy: 21.2 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.39  
Luminous Opening: (L: 0 ' x W: -0.67 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 35  
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	50	30	10	0		
RCR																										
0	49	49	49	49	48	48	48	48	46	46	46	44	44	44	42	42	42	42	42	42	42	42	42	41		
1	45	43	41	39	44	42	40	39	40	39	37	38	37	36	37	36	35	37	36	35	37	36	35	34		
2	41	37	34	32	39	36	34	31	35	33	31	33	32	30	32	31	29	32	31	29	32	31	29	28		
3	37	32	29	26	36	32	29	26	31	28	26	29	27	25	28	26	25	28	26	25	28	26	25	24		
4	34	29	25	22	33	28	25	22	27	24	22	26	23	21	25	23	21	25	23	21	25	23	21	20		
5	31	26	22	19	30	25	22	19	24	21	19	23	21	18	23	20	18	23	20	18	23	20	18	17		
6	29	23	19	17	28	23	19	16	22	19	16	21	18	16	20	18	16	20	18	16	20	18	16	15		
7	26	21	17	15	26	20	17	15	20	17	14	19	16	14	19	16	14	19	16	14	19	16	14	13		
8	25	19	15	13	24	19	15	13	18	15	13	18	15	13	17	15	13	17	15	13	17	15	13	12		
9	23	17	14	12	22	17	14	12	17	14	12	16	13	11	16	13	11	16	13	11	16	13	11	11		
10	22	16	13	11	21	16	13	11	15	12	10	15	12	10	15	12	10	15	12	10	15	12	10	10		

**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°	23.7	3.2	1.3
10°-20°	68.1	9.2	3.8
20°-30°	103.7	14.0	5.8
30°-40°	125.9	17.0	7.0
40°-50°	132.0	17.8	7.3
50°-60°	121.2	16.3	6.7
60°-70°	95.1	12.8	5.3
70°-80°	56.9	7.7	3.2
80°-90°	15.7	2.1	0.9
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°	195.4	26.3	10.9
0°-40°	321.4	43.3	17.9
0°-60°	574.5	77.4	31.9
0°-90°	742.3	100.0	41.2
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°	742.3	100.0	41.2

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	249	249	249	249	249	
5°	247	248	248	250	250	24
15°	240	240	241	242	243	68
25°	224	224	225	226	227	103
35°	199	201	201	202	204	125
45°	170	170	171	172	173	131
55°	134	135	136	136	137	120
65°	95	96	96	97	97	94
75°	54	54	54	54	55	57
85°	14	13	14	14	14	15
90°	0	0	0	0	0	1
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°	249.4	249.4	249.4	249.4	249.4
2.5°	247.8	248.7	249.2	249.9	250.5
5°	247.3	248.3	248.5	249.5	249.9
7.5°	246.2	247.1	247.5	248.3	248.6
10°	244.5	245.5	246.0	246.7	247.3
12.5°	242.5	243.4	243.6	244.5	245.0
15°	239.6	240.5	241.1	241.7	242.8
17.5°	236.3	237.3	237.7	238.4	239.4
20°	232.6	233.4	234.2	234.6	235.7
22.5°	228.3	229.2	229.7	230.3	231.2
25°	223.5	224.5	225.0	225.6	226.6
27.5°	218.2	219.2	219.6	220.4	221.7
30°	212.5	213.5	214.0	214.7	215.3
32.5°	206.3	207.1	208.2	208.4	209.6
35°	199.4	200.7	201.1	202.0	203.7
37.5°	192.6	193.6	194.1	194.9	196.3
40°	185.5	186.3	186.9	187.7	189.3
42.5°	177.8	178.5	179.1	179.7	181.3
45°	169.5	170.4	170.9	171.8	173.2
47.5°	161.2	161.6	162.4	163.4	164.2
50°	152.8	153.3	154.1	154.5	155.5
52.5°	143.6	144.3	144.9	145.6	146.7
55°	134.2	134.8	135.7	136.0	136.9
57.5°	124.7	125.5	126.1	126.5	127.7
60°	115.2	115.7	116.3	116.7	117.5
62.5°	105.2	105.9	106.3	106.7	107.7
65°	95.3	95.8	96.3	96.6	97.2
67.5°	85.2	85.5	85.9	86.2	86.9
70°	75.0	75.3	75.3	75.6	76.4
72.5°	64.5	64.7	64.5	64.7	65.6
75°	54.2	53.9	53.7	53.9	54.8
77.5°	43.5	43.2	42.8	43.0	43.7
80°	33.2	32.7	32.0	32.5	33.3
82.5°	23.0	22.1	21.8	22.2	23.0
85°	13.7	13.1	13.6	13.5	14.1
87.5°	5.4	5.1	5.8	5.6	5.9
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)