

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: E395556

Luminaire Tested: **L1738/L215**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-46-04  
Report Number: E395556  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L1738/L215  
Description: HALO TRAC - GIMBAL RING, CIRCULAR SPREAD LENS  
Light Source: 150PAR38FL, 1740 LUMENS  
Ballast/Driver: -

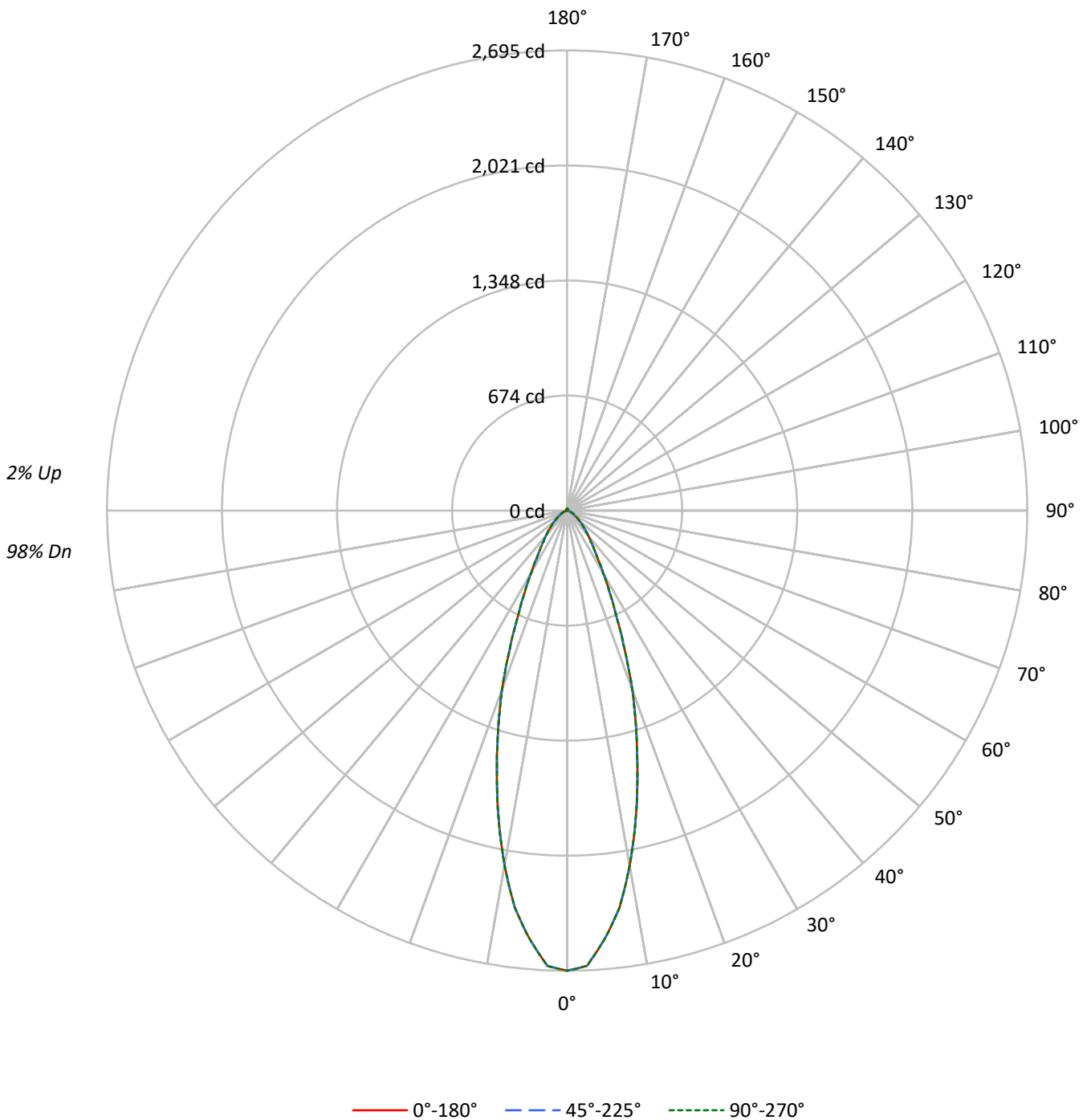
**Summary**

Lumens per Lamp: 1740 (1 lamp)  
Luminaire Lumens: 1406.9 lumens  
Efficiency: 80.9%  
Efficacy: 9.4 lumens/watt  
Spacing Criteria (0/90/45): 0.57 / 0.57 / 0.59  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

Input Watts (W): 150  
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: E395556  
CATALOG NUMBER: L1738/L215

### Luminous Intensity Polar Plot





TEST NUMBER: E395556  
 CATALOG NUMBER: L1738/L215

**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	96	96	96	96	94	94	94	94	89	89	89	85	85	85	81	81	81	80						
1	91	89	87	85	89	87	85	83	83	82	80	80	79	78	77	76	75	74						
2	86	82	79	76	84	81	78	75	78	75	73	75	73	71	73	71	70	68						
3	82	77	72	69	80	75	72	69	73	70	67	71	68	66	69	67	65	64						
4	78	72	67	64	76	71	66	63	69	65	62	67	64	61	65	63	61	59						
5	74	67	63	59	73	66	62	59	65	61	58	63	60	57	62	59	57	56						
6	71	63	59	55	69	63	58	55	61	57	54	60	57	54	59	56	53	52						
7	67	60	55	52	66	59	55	52	58	54	51	57	54	51	56	53	51	49						
8	64	57	52	49	63	56	52	49	55	51	48	54	51	48	54	50	48	47						
9	62	54	49	46	61	54	49	46	53	49	46	52	48	46	51	48	45	44						
10	59	52	47	44	58	51	47	44	50	46	44	50	46	44	49	46	43	42						

**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°			



TEST NUMBER: E395556  
 CATALOG NUMBER: L1738/L215

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	228.1	16.2	13.1
10°-20°	438.7	31.2	25.2
20°-30°	322.1	22.9	18.5
30°-40°	176.8	12.6	10.2
40°-50°	107.8	7.7	6.2
50°-60°	60.0	4.3	3.4
60°-70°	30.6	2.2	1.8
70°-80°	14.0	1.0	0.8
80°-90°	5.7	0.4	0.3
90°-100°	3.0	0.2	0.2
100°-110°	2.1	0.2	0.1
110°-120°	2.7	0.2	0.2
120°-130°	2.7	0.2	0.2
130°-140°	2.9	0.2	0.2
140°-150°	3.1	0.2	0.2
150°-160°	3.2	0.2	0.2
160°-170°	2.5	0.2	0.1
170°-180°	0.8	0.1	0.0
0°-30°	988.9	70.3	56.8
0°-40°	1165.7	82.9	67.0
0°-60°	1333.5	94.8	76.6
0°-90°	1383.8	98.4	79.5
90°-120°	7.8	0.6	0.5
90°-150°	16.6	1.2	1.0
90°-180°	23.0	1.6	1.3
0°-180°	1406.9	100.0	80.9

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2695	2695	2695	2695	2695	
5°	2519	2519	2519	2519	2519	228
15°	1589	1589	1589	1589	1589	439
25°	682	682	682	682	682	322
35°	274	274	274	274	274	177
45°	138	138	138	138	138	108
55°	65	65	65	65	65	60
65°	30	30	30	30	30	31
75°	13	13	13	13	13	14
85°	5	5	5	5	5	5
90°	3	3	3	3	3	2
95°	3	3	3	3	3	2
105°	2	2	2	2	2	2
115°	3	3	3	3	3	3
125°	3	3	3	3	3	3
135°	4	4	4	4	4	3
145°	5	5	5	5	5	3
155°	7	7	7	7	7	3
165°	9	9	9	9	9	3
175°	9	9	9	9	9	1
180°	0	0	0	0	0	



TEST NUMBER: E395556  
 CATALOG NUMBER: L1738/L215

**CANDELA DISTRIBUTION (FULL):**

	0°	30°	60°	90°	120°	150°	180°
0°	2695	2695	2695	2695	2695	2695	2695
2.5°	2669	2669	2669	2669	2669	2669	2669
5°	2519	2519	2519	2519	2519	2519	2519
7.5°	2347	2347	2347	2347	2347	2347	2347
10°	2110	2110	2110	2110	2110	2110	2110
12.5°	1853	1853	1853	1853	1853	1853	1853
15°	1589	1589	1589	1589	1589	1589	1589
17.5°	1342	1342	1342	1342	1342	1342	1342
20°	1114	1114	1114	1114	1114	1114	1114
22.5°	879	879	879	879	879	879	879
25°	682	682	682	682	682	682	682
27.5°	536	536	536	536	536	536	536
30°	421	421	421	421	421	421	421
32.5°	335	335	335	335	335	335	335
35°	274	274	274	274	274	274	274
37.5°	227	227	227	227	227	227	227
40°	193	193	193	193	193	193	193
42.5°	164	164	164	164	164	164	164
45°	138	138	138	138	138	138	138
50°	94	94	94	94	94	94	94
55°	65	65	65	65	65	65	65
60°	45	45	45	45	45	45	45
65°	30	30	30	30	30	30	30
70°	19	19	19	19	19	19	19
75°	13	13	13	13	13	13	13
80°	8	8	8	8	8	8	8
85°	5	5	5	5	5	5	5
90°	3	3	3	3	3	3	3
95°	3	3	3	3	3	3	3
100°	2	2	2	2	2	2	2
105°	2	2	2	2	2	2	2
110°	2	2	2	2	2	2	2
115°	3	3	3	3	3	3	3
120°	3	3	3	3	3	3	3
125°	3	3	3	3	3	3	3
130°	3	3	3	3	3	3	3
135°	4	4	4	4	4	4	4
140°	4	4	4	4	4	4	4
145°	5	5	5	5	5	5	5
150°	6	6	6	6	6	6	6
155°	7	7	7	7	7	7	7
160°	8	8	8	8	8	8	8
165°	9	9	9	9	9	9	9
170°	10	10	10	10	10	10	10
175°	9	9	9	9	9	9	9



TEST NUMBER: E395556  
CATALOG NUMBER: L1738/L215

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°
180°	0	0	0	0	0	0	0

(END OF REPORT)