

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: E395557

Luminaire Tested: **L1738/L215**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: E395557
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: 150PAR38SP, 1740 LUMENS
Ballast/Driver: -

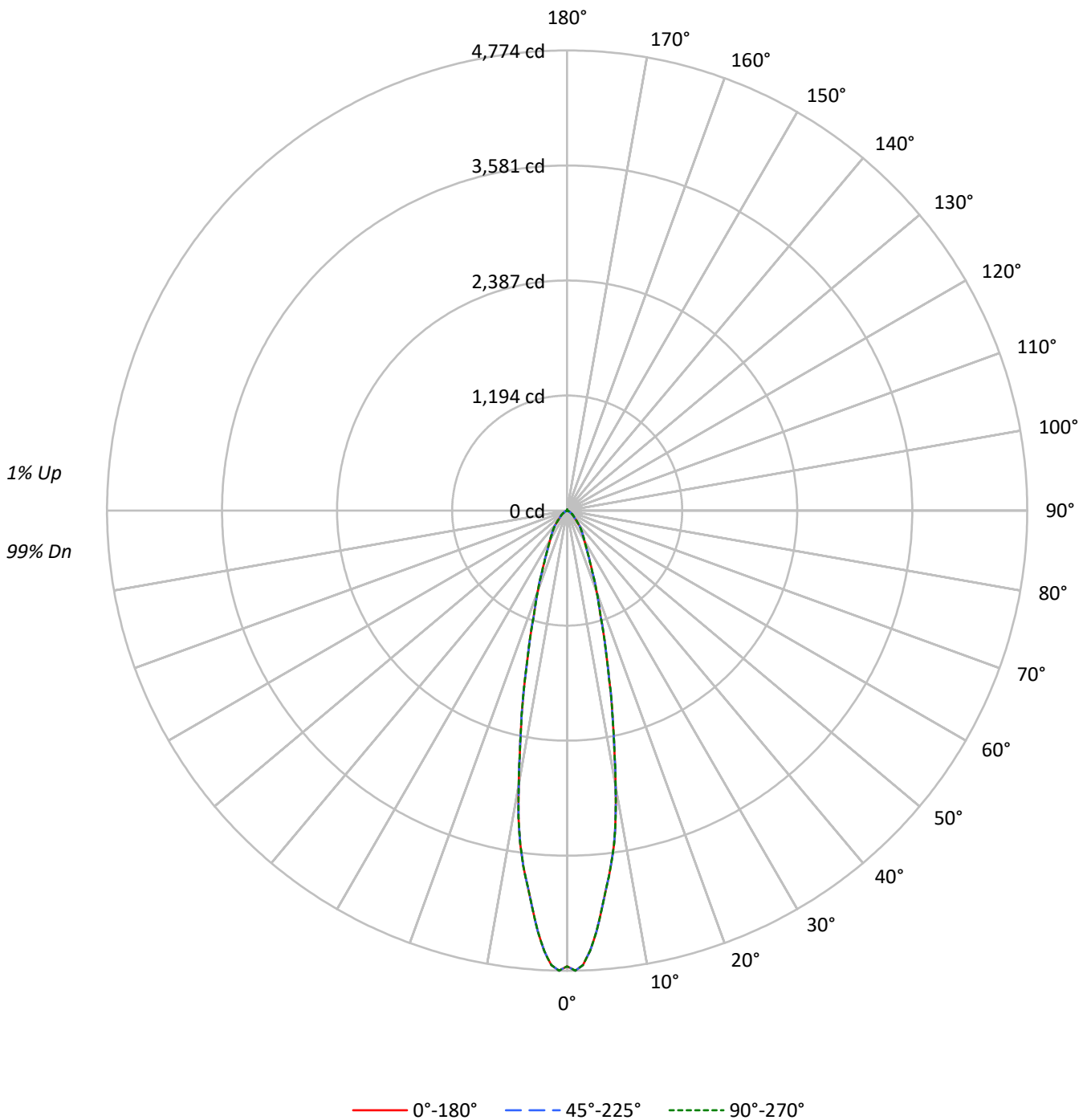
Summary

Lumens per Lamp: 1740 (1 lamp)
Luminaire Lumens: 1411.3 lumens
Efficiency: 81.1%
Efficacy: 9.4 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.42
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: E395557
CATALOG NUMBER: L1738/L215

Luminous Intensity Polar Plot





TEST NUMBER: E395557
 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	50	30	10	50	30	10	0																			
RCR																																														
0	96	96	96	96	94	94	94	94	90	90	90	86	86	86	82	82	82	80	80	80	80	80	80	80	80	80	80	80																		
1	92	90	88	86	90	88	86	85	85	83	82	82	80	80	79	78	77	76	76	76	76	76	76	76	76	76	76	76																		
2	88	84	81	79	86	83	80	78	80	78	76	77	76	74	75	74	72	71	71	71	71	71	71	71	71	71	71	71																		
3	84	79	75	72	82	78	75	72	76	73	71	74	71	69	72	70	68	67	67	67	67	67	67	67	67	67	67	67																		
4	80	75	71	67	79	74	70	67	72	69	66	70	67	65	69	66	64	63	63	63	63	63	63	63	63	63	63	63																		
5	77	71	66	63	76	70	66	63	68	65	62	67	64	62	66	63	61	60	60	60	60	60	60	60	60	60	60	60																		
6	74	67	63	60	73	67	62	59	65	62	59	64	61	59	63	60	58	57	57	57	57	57	57	57	57	57	57	57																		
7	71	64	60	57	70	64	59	57	62	59	56	61	58	56	61	58	55	54	54	54	54	54	54	54	54	54	54	54																		
8	68	61	57	54	67	61	57	54	60	56	54	59	56	53	58	55	53	52	52	52	52	52	52	52	52	52	52	52																		
9	66	59	55	52	65	58	54	52	58	54	51	57	54	51	56	53	51	50	50	50	50	50	50	50	50	50	50	50																		
10	63	56	52	50	63	56	52	50	55	52	49	55	52	49	54	51	49	48	48	48	48	48	48	48	48	48	48	48																		

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: E395557
 CATALOG NUMBER: L1738/L215

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	358.2	25.4	20.6
10°-20°	451.5	32.0	25.9
20°-30°	252.5	17.9	14.5
30°-40°	163.4	11.6	9.4
40°-50°	93.9	6.7	5.4
50°-60°	51.4	3.6	3.0
60°-70°	17.5	1.2	1.0
70°-80°	5.5	0.4	0.3
80°-90°	3.3	0.2	0.2
90°-100°	2.0	0.1	0.1
100°-110°	1.3	0.1	0.1
110°-120°	1.0	0.1	0.1
120°-130°	1.1	0.1	0.1
130°-140°	1.5	0.1	0.1
140°-150°	2.0	0.1	0.1
150°-160°	2.4	0.2	0.1
160°-170°	2.1	0.2	0.1
170°-180°	0.4	0.0	0.0
0°-30°	1062.2	75.3	61.0
0°-40°	1225.6	86.8	70.4
0°-60°	1370.9	97.1	78.8
0°-90°	1397.2	99.0	80.3
90°-120°	4.4	0.3	0.3
90°-150°	9.1	0.6	0.5
90°-180°	14.0	1.0	0.8
0°-180°	1411.3	100.0	81.1

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4728	4728	4728	4728	4728	
5°	4139	4139	4139	4139	4139	358
15°	1592	1592	1592	1592	1592	452
25°	524	524	524	524	524	252
35°	262	262	262	262	262	163
45°	113	113	113	113	113	94
55°	59	59	59	59	59	51
65°	17	17	17	17	17	18
75°	5	5	5	5	5	6
85°	3	3	3	3	3	3
90°	2	2	2	2	2	1
95°	2	2	2	2	2	1
105°	1	1	1	1	1	1
115°	1	1	1	1	1	1
125°	1	1	1	1	1	1
135°	2	2	2	2	2	2
145°	3	3	3	3	3	2
155°	5	5	5	5	5	2
165°	8	8	8	8	8	2
175°	9	9	9	9	9	0
180°	0	0	0	0	0	



TEST NUMBER: E395557
 CATALOG NUMBER: L1738/L215

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	4728	4728	4728	4728	4728	4728	4728
1°	4774	4774	4774	4774	4774	4774	4774
2°	4719	4719	4719	4719	4719	4719	4719
3°	4573	4573	4573	4573	4573	4573	4573
4°	4374	4374	4374	4374	4374	4374	4374
5°	4139	4139	4139	4139	4139	4139	4139
6°	3920	3920	3920	3920	3920	3920	3920
7°	3719	3719	3719	3719	3719	3719	3719
8°	3496	3496	3496	3496	3496	3496	3496
9°	3220	3220	3220	3220	3220	3220	3220
10°	2900	2900	2900	2900	2900	2900	2900
11°	2582	2582	2582	2582	2582	2582	2582
12°	2303	2303	2303	2303	2303	2303	2303
13°	2056	2056	2056	2056	2056	2056	2056
14°	1807	1807	1807	1807	1807	1807	1807
15°	1592	1592	1592	1592	1592	1592	1592
17.5°	1154	1154	1154	1154	1154	1154	1154
20°	893	893	893	893	893	893	893
22.5°	671	671	671	671	671	671	671
25°	524	524	524	524	524	524	524
27.5°	425	425	425	425	425	425	425
30°	353	353	353	353	353	353	353
32.5°	302	302	302	302	302	302	302
35°	262	262	262	262	262	262	262
37.5°	223	223	223	223	223	223	223
40°	180	180	180	180	180	180	180
45°	113	113	113	113	113	113	113
50°	83	83	83	83	83	83	83
55°	59	59	59	59	59	59	59
60°	30	30	30	30	30	30	30
65°	17	17	17	17	17	17	17
70°	7	7	7	7	7	7	7
75°	5	5	5	5	5	5	5
80°	4	4	4	4	4	4	4
85°	3	3	3	3	3	3	3
90°	2	2	2	2	2	2	2
95°	2	2	2	2	2	2	2
105°	1	1	1	1	1	1	1
115°	1	1	1	1	1	1	1
125°	1	1	1	1	1	1	1
135°	2	2	2	2	2	2	2
145°	3	3	3	3	3	3	3
155°	5	5	5	5	5	5	5
165°	8	8	8	8	8	8	8
175°	9	9	9	9	9	9	9



TEST NUMBER: E395557
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)