

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: E428326

Luminaire Tested: **M700-740-1705C**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: E428326
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: M700-740-1705C
Description: HALO RECESSED HID - LITE COMMERCIAL, CLEAR SPEC REFL, LOW SS
Light Source: M100C, 8000 LUMENS
Ballast/Driver: -

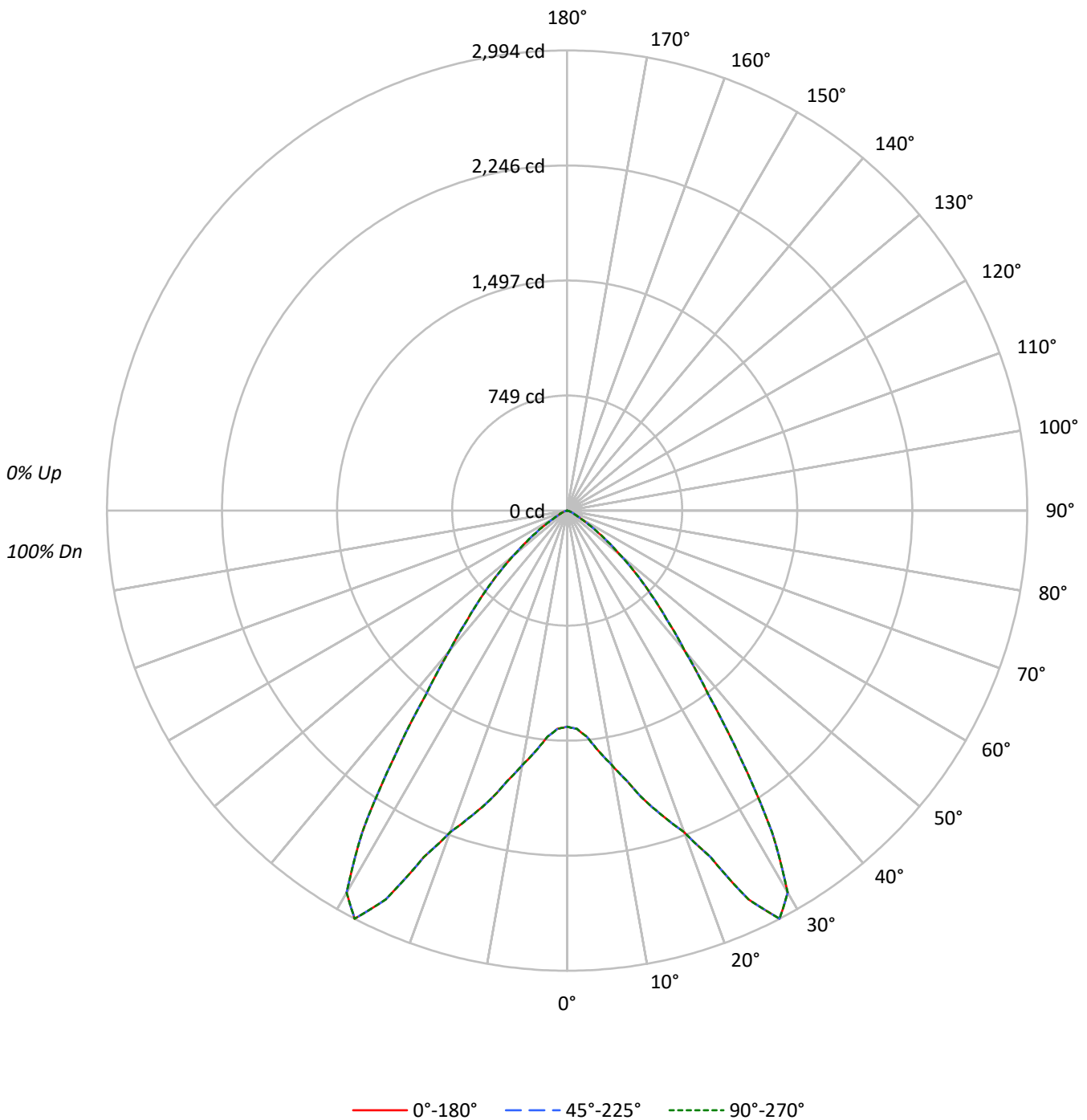
Summary

Lumens per Lamp: 8000 (1 lamp)
Luminaire Lumens: 4084.4 lumens
Efficiency: 51.1%
Efficacy: 31.7 lumens/watt
Spacing Criteria (0/90/45): 1.57 / 1.57 / 1.33
Luminous Opening: (L: 0 ' x W: -0.58 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 129
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: E428326
CATALOG NUMBER: M700-740-1705C

Luminous Intensity Polar Plot





TEST NUMBER: E428326

CATALOG NUMBER: M700-740-1705C

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	0
RCR																				
0	61	61	61	61	59	59	59	59	57	57	57		54	54	54		52	52	52	51
1	57	56	54	53	56	55	53	52	53	51	50		51	50	49		49	48	48	47
2	54	51	48	46	53	50	48	46	48	46	45		47	45	44		45	44	43	42
3	50	46	43	41	49	46	43	41	44	42	40		43	41	39		42	40	39	38
4	47	42	39	36	46	42	39	36	41	38	36		40	37	35		39	37	35	34
5	44	39	35	33	43	38	35	32	37	34	32		36	34	32		36	33	32	31
6	41	36	32	29	40	35	32	29	34	31	29		34	31	29		33	30	29	28
7	38	33	29	26	38	32	29	26	32	29	26		31	28	26		30	28	26	25
8	36	30	27	24	35	30	26	24	29	26	24		29	26	24		28	26	24	23
9	34	28	24	22	33	28	24	22	27	24	22		27	24	22		26	24	22	21
10	32	26	22	20	31	26	22	20	25	22	20		25	22	20		24	22	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
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°			



TEST NUMBER: E428326

CATALOG NUMBER: M700-740-1705C

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	148.0	3.6	1.9
10°-20°	560.6	13.7	7.0
20°-30°	1258.1	30.8	15.7
30°-40°	1232.6	30.2	15.4
40°-50°	604.3	14.8	7.6
50°-60°	219.3	5.4	2.7
60°-70°	53.9	1.3	0.7
70°-80°	7.6	0.2	0.1
80°-90°	0.0	0.0	0.0
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°	1966.7	48.2	24.6
0°-40°	3199.3	78.3	40.0
0°-60°	4022.9	98.5	50.3
0°-90°	4084.4	100.0	51.1
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°	4084.4	100.0	51.1

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1406	1406	1406	1406	1406	
5°	1476	1476	1476	1476	1476	148
15°	1953	1953	1953	1953	1953	561
25°	2791	2791	2791	2791	2791	1258
35°	1966	1966	1966	1966	1966	1233
45°	773	773	773	773	773	604
55°	233	233	233	233	233	219
65°	47	47	47	47	47	54
75°	1	1	1	1	1	8
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: E428326

CATALOG NUMBER: M700-740-1705C

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1406	1406	1406	1406	1406	1406	1406	1406	1406
2.5°	1421	1421	1421	1421	1421	1421	1421	1421	1421
5°	1476	1476	1476	1476	1476	1476	1476	1476	1476
7.5°	1580	1580	1580	1580	1580	1580	1580	1580	1580
10°	1682	1682	1682	1682	1682	1682	1682	1682	1682
12.5°	1803	1803	1803	1803	1803	1803	1803	1803	1803
15°	1953	1953	1953	1953	1953	1953	1953	1953	1953
17.5°	2087	2087	2087	2087	2087	2087	2087	2087	2087
20°	2228	2228	2228	2228	2228	2228	2228	2228	2228
22.5°	2441	2441	2441	2441	2441	2441	2441	2441	2441
25°	2791	2791	2791	2791	2791	2791	2791	2791	2791
27.5°	2994	2994	2994	2994	2994	2994	2994	2994	2994
30°	2870	2870	2870	2870	2870	2870	2870	2870	2870
32.5°	2482	2482	2482	2482	2482	2482	2482	2482	2482
35°	1966	1966	1966	1966	1966	1966	1966	1966	1966
37.5°	1509	1509	1509	1509	1509	1509	1509	1509	1509
40°	1191	1191	1191	1191	1191	1191	1191	1191	1191
42.5°	956	956	956	956	956	956	956	956	956
45°	773	773	773	773	773	773	773	773	773
47.5°	608	608	608	608	608	608	608	608	608
50°	456	456	456	456	456	456	456	456	456
52.5°	329	329	329	329	329	329	329	329	329
55°	233	233	233	233	233	233	233	233	233
57.5°	153	153	153	153	153	153	153	153	153
60°	97	97	97	97	97	97	97	97	97
62.5°	62	62	62	62	62	62	62	62	62
65°	47	47	47	47	47	47	47	47	47
67.5°	47	47	47	47	47	47	47	47	47
70°	28	28	28	28	28	28	28	28	28
72.5°	14	14	14	14	14	14	14	14	14
75°	1	1	1	1	1	1	1	1	1
77.5°	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)