

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: E428325

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: E428325
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, HIGH SS
Light Source: M100C, 8000 LUMENS
Ballast/Driver: -

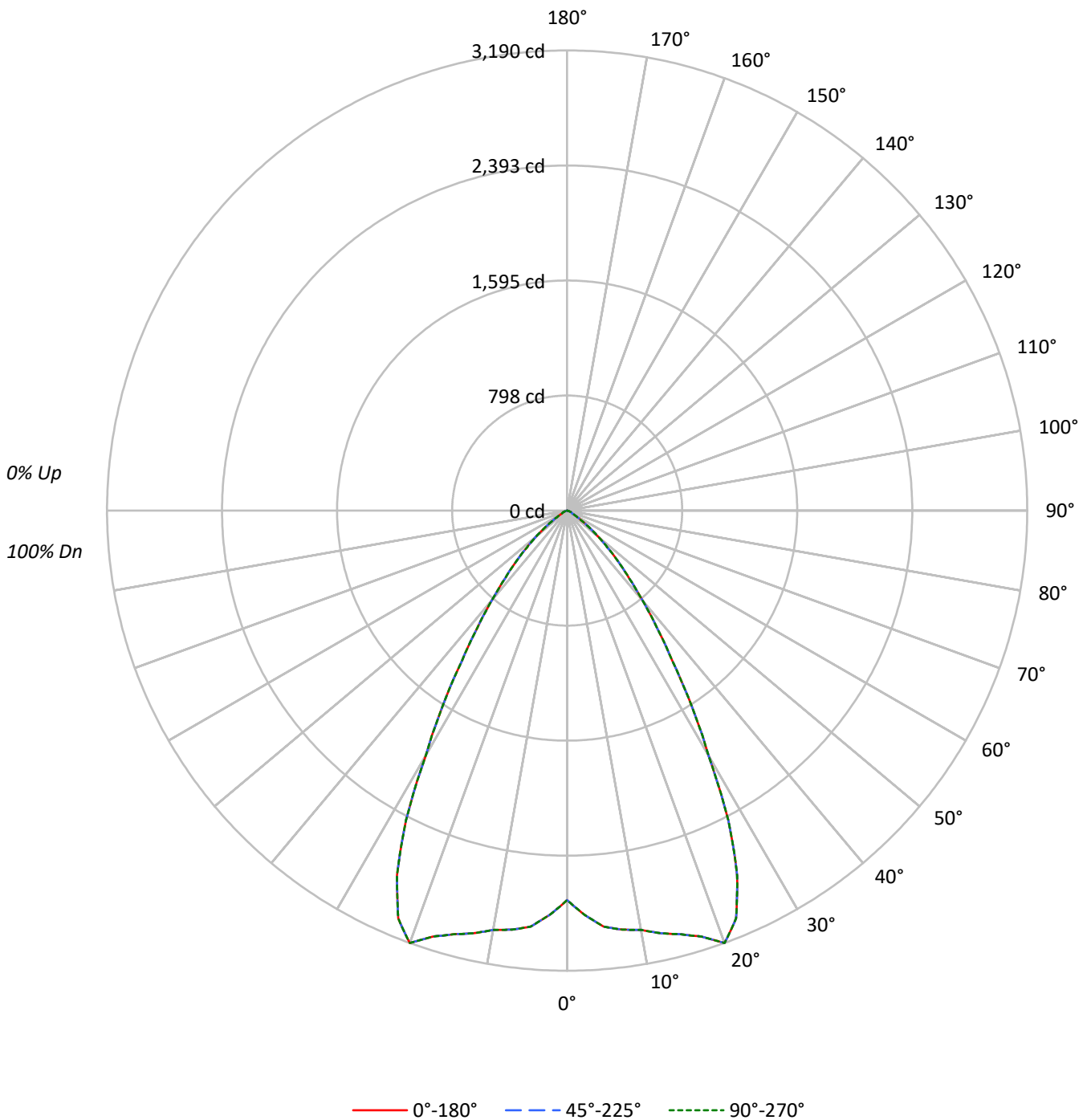
Summary

Lumens per Lamp: 8000 (1 lamp)
Luminaire Lumens: 3755.2 lumens
Efficiency: 46.9%
Efficacy: 29.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1
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

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

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°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	277.1	7.4	3.5
10°-20°	868.3	23.1	10.9
20°-30°	1238.3	33.0	15.5
30°-40°	815.3	21.7	10.2
40°-50°	394.0	10.5	4.9
50°-60°	124.6	3.3	1.6
60°-70°	32.3	0.9	0.4
70°-80°	5.2	0.1	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°	2383.7	63.5	29.8
0°-40°	3199.1	85.2	40.0
0°-60°	3717.7	99.0	46.5
0°-90°	3755.2	100.0	46.9
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°	3755.2	100.0	46.9

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2701	2701	2701	2701	2701	
5°	2895	2895	2895	2895	2895	277
15°	3040	3040	3040	3040	3040	868
25°	2790	2790	2790	2790	2790	1238
35°	1271	1271	1271	1271	1271	815
45°	500	500	500	500	500	394
55°	127	127	127	127	127	125
65°	32	32	32	32	32	32
75°	0	0	0	0	0	5
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2701	2701	2701	2701	2701	2701	2701	2701	2701
2.5°	2806	2806	2806	2806	2806	2806	2806	2806	2806
5°	2895	2895	2895	2895	2895	2895	2895	2895	2895
7.5°	2930	2930	2930	2930	2930	2930	2930	2930	2930
10°	2951	2951	2951	2951	2951	2951	2951	2951	2951
12.5°	3002	3002	3002	3002	3002	3002	3002	3002	3002
15°	3040	3040	3040	3040	3040	3040	3040	3040	3040
17.5°	3096	3096	3096	3096	3096	3096	3096	3096	3096
20°	3190	3190	3190	3190	3190	3190	3190	3190	3190
22.5°	3060	3060	3060	3060	3060	3060	3060	3060	3060
25°	2790	2790	2790	2790	2790	2790	2790	2790	2790
27.5°	2421	2421	2421	2421	2421	2421	2421	2421	2421
30°	1962	1962	1962	1962	1962	1962	1962	1962	1962
32.5°	1605	1605	1605	1605	1605	1605	1605	1605	1605
35°	1271	1271	1271	1271	1271	1271	1271	1271	1271
37.5°	1020	1020	1020	1020	1020	1020	1020	1020	1020
40°	810	810	810	810	810	810	810	810	810
42.5°	637	637	637	637	637	637	637	637	637
45°	500	500	500	500	500	500	500	500	500
47.5°	379	379	379	379	379	379	379	379	379
50°	285	285	285	285	285	285	285	285	285
52.5°	199	199	199	199	199	199	199	199	199
55°	127	127	127	127	127	127	127	127	127
57.5°	74	74	74	74	74	74	74	74	74
60°	45	45	45	45	45	45	45	45	45
62.5°	35	35	35	35	35	35	35	35	35
65°	32	32	32	32	32	32	32	32	32
67.5°	32	32	32	32	32	32	32	32	32
70°	18	18	18	18	18	18	18	18	18
72.5°	11	11	11	11	11	11	11	11	11
75°	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)