

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: E428404

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: E428404
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: M700-740-1705BA
Description: HALO RECESSED HID - LITE COMMERCIAL, BAFFLE REFL, LOW SS
Light Source: M100C, 8000 LUMENS
Ballast/Driver: -

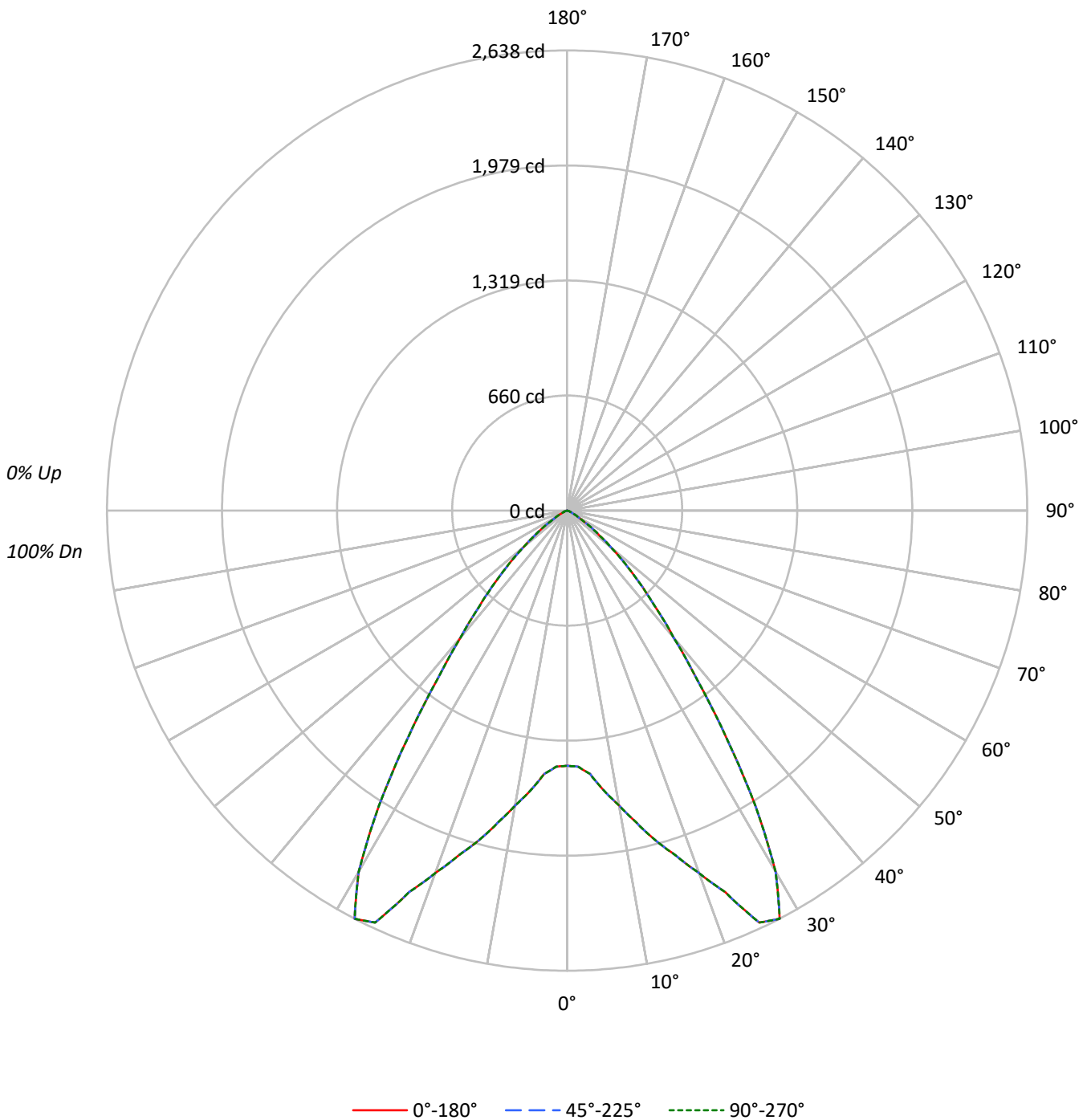
Summary

Lumens per Lamp: 8000 (1 lamp)
Luminaire Lumens: 3524.5 lumens
Efficiency: 44.1%
Efficacy: 27.3 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 1.47 / 1.24
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	52	52	52	52	51	51	51	51	49	49	49	47	47	47	45	45	45	44
1	50	48	47	46	49	47	46	45	45	45	44	44	43	42	42	42	41	40
2	47	44	42	40	46	43	42	40	42	40	39	41	39	38	39	38	37	37
3	44	40	38	36	43	40	37	36	39	37	35	38	36	34	37	35	34	33
4	41	37	34	32	40	37	34	32	36	33	32	35	33	31	34	32	31	30
5	38	34	31	29	38	34	31	29	33	30	29	32	30	28	31	29	28	27
6	36	31	28	26	35	31	28	26	30	28	26	30	27	26	29	27	26	25
7	34	29	26	24	33	29	26	24	28	26	24	28	25	23	27	25	23	23
8	32	27	24	22	31	27	24	22	26	23	22	26	23	21	25	23	21	21
9	30	25	22	20	29	25	22	20	24	22	20	24	21	20	23	21	20	19
10	28	23	20	18	28	23	20	18	23	20	18	22	20	18	22	20	18	17

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°	151.9	4.3	1.9
10°-20°	561.9	15.9	7.0
20°-30°	1151.6	32.7	14.4
30°-40°	1002.9	28.5	12.5
40°-50°	462.8	13.1	5.8
50°-60°	154.1	4.4	1.9
60°-70°	34.3	1.0	0.4
70°-80°	5.1	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°	1865.3	52.9	23.3
0°-40°	2868.2	81.4	35.9
0°-60°	3485.1	98.9	43.6
0°-90°	3524.5	100.0	44.1
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°	3524.5	100.0	44.1

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1462	1462	1462	1462	1462	
5°	1516	1516	1516	1516	1516	152
15°	1958	1958	1958	1958	1958	562
25°	2606	2606	2606	2606	2606	1152
35°	1594	1594	1594	1594	1594	1003
45°	586	586	586	586	586	463
55°	162	162	162	162	162	154
65°	29	29	29	29	29	34
75°	3	3	3	3	3	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°	1462	1462	1462	1462	1462	1462	1462	1462	1462
2.5°	1470	1470	1470	1470	1470	1470	1470	1470	1470
5°	1516	1516	1516	1516	1516	1516	1516	1516	1516
7.5°	1620	1620	1620	1620	1620	1620	1620	1620	1620
10°	1717	1717	1717	1717	1717	1717	1717	1717	1717
12.5°	1832	1832	1832	1832	1832	1832	1832	1832	1832
15°	1958	1958	1958	1958	1958	1958	1958	1958	1958
17.5°	2074	2074	2074	2074	2074	2074	2074	2074	2074
20°	2212	2212	2212	2212	2212	2212	2212	2212	2212
22.5°	2368	2368	2368	2368	2368	2368	2368	2368	2368
25°	2606	2606	2606	2606	2606	2606	2606	2606	2606
27.5°	2638	2638	2638	2638	2638	2638	2638	2638	2638
30°	2391	2391	2391	2391	2391	2391	2391	2391	2391
32.5°	2010	2010	2010	2010	2010	2010	2010	2010	2010
35°	1594	1594	1594	1594	1594	1594	1594	1594	1594
37.5°	1227	1227	1227	1227	1227	1227	1227	1227	1227
40°	951	951	951	951	951	951	951	951	951
42.5°	747	747	747	747	747	747	747	747	747
45°	586	586	586	586	586	586	586	586	586
47.5°	450	450	450	450	450	450	450	450	450
50°	330	330	330	330	330	330	330	330	330
52.5°	232	232	232	232	232	232	232	232	232
55°	162	162	162	162	162	162	162	162	162
57.5°	104	104	104	104	104	104	104	104	104
60°	68	68	68	68	68	68	68	68	68
62.5°	46	46	46	46	46	46	46	46	46
65°	29	29	29	29	29	29	29	29	29
67.5°	22	22	22	22	22	22	22	22	22
70°	17	17	17	17	17	17	17	17	17
72.5°	8	8	8	8	8	8	8	8	8
75°	3	3	3	3	3	3	3	3	3
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)