

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: E428397

Luminaire Tested: **M700-630-1700C**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: E428397
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: M700-630-1700C
Description: HALO RECESSED HID - LITE COMMERCIAL, CLEAR SPEC REFL, LOW SS
Light Source: LU70D, 5400 LUMENS
Ballast/Driver: -

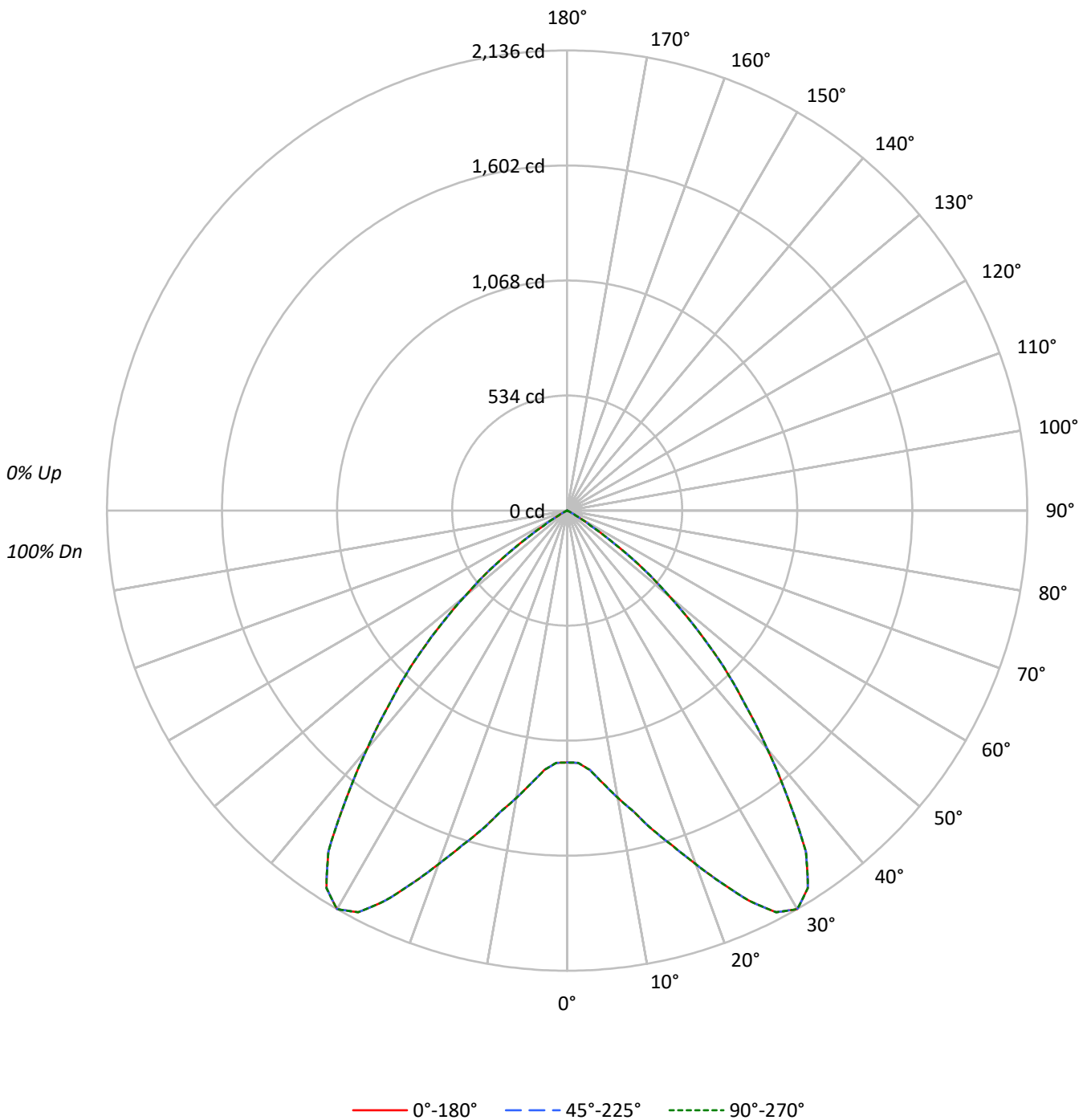
Summary

Lumens per Lamp: 5400 (1 lamp)
Luminaire Lumens: 3707.6 lumens
Efficiency: 68.7%
Efficacy: 42.1 lumens/watt
Spacing Criteria (0/90/45): 1.74 / 1.74 / 1.49
Luminous Opening: (L: 0 ' x W: -0.58 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 88
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	82	82	82	82	80	80	80	80	76	76	76	73	73	73	70	70	70	69		
1	77	75	73	71	75	73	71	70	70	69	68	68	67	66	65	65	64	62		
2	72	68	65	62	70	67	64	61	64	62	60	62	60	58	60	59	57	56		
3	67	62	57	54	66	61	57	54	59	55	53	57	54	52	55	53	51	50		
4	62	56	51	48	61	55	51	47	54	50	47	52	49	46	51	48	46	44		
5	58	51	46	42	57	50	46	42	49	45	42	48	44	41	47	43	41	40		
6	54	46	41	38	53	46	41	38	45	40	37	44	40	37	43	39	37	35		
7	50	43	37	34	49	42	37	34	41	37	33	40	36	33	39	36	33	32		
8	47	39	34	30	46	39	34	30	38	33	30	37	33	30	36	33	30	29		
9	44	36	31	27	43	35	31	27	35	30	27	34	30	27	33	30	27	26		
10	41	33	28	25	40	33	28	25	32	28	25	31	28	25	31	27	25	24		

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°	120.2	3.2	2.2
10°-20°	441.5	11.9	8.2
20°-30°	921.1	24.8	17.1
30°-40°	1166.9	31.5	21.6
40°-50°	787.1	21.2	14.6
50°-60°	260.6	7.0	4.8
60°-70°	10.2	0.3	0.2
70°-80°	0.0	0.0	0.0
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°	1482.8	40.0	27.5
0°-40°	2649.7	71.5	49.1
0°-60°	3697.4	99.7	68.5
0°-90°	3707.6	100.0	68.7
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°	3707.6	100.0	68.7

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1169	1169	1169	1169	1169	
5°	1208	1208	1208	1208	1208	120
15°	1534	1534	1534	1534	1534	441
25°	1998	1998	1998	1998	1998	921
35°	1933	1933	1933	1933	1933	1167
45°	1029	1029	1029	1029	1029	787
55°	265	265	265	265	265	261
65°	2	2	2	2	2	10
75°	0	0	0	0	0	0
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°	1169	1169	1169	1169	1169	1169	1169	1169	1169
2.5°	1172	1172	1172	1172	1172	1172	1172	1172	1172
5°	1208	1208	1208	1208	1208	1208	1208	1208	1208
7.5°	1276	1276	1276	1276	1276	1276	1276	1276	1276
10°	1354	1354	1354	1354	1354	1354	1354	1354	1354
12.5°	1433	1433	1433	1433	1433	1433	1433	1433	1433
15°	1534	1534	1534	1534	1534	1534	1534	1534	1534
17.5°	1632	1632	1632	1632	1632	1632	1632	1632	1632
20°	1746	1746	1746	1746	1746	1746	1746	1746	1746
22.5°	1870	1870	1870	1870	1870	1870	1870	1870	1870
25°	1998	1998	1998	1998	1998	1998	1998	1998	1998
27.5°	2102	2102	2102	2102	2102	2102	2102	2102	2102
30°	2136	2136	2136	2136	2136	2136	2136	2136	2136
32.5°	2079	2079	2079	2079	2079	2079	2079	2079	2079
35°	1933	1933	1933	1933	1933	1933	1933	1933	1933
37.5°	1684	1684	1684	1684	1684	1684	1684	1684	1684
40°	1446	1446	1446	1446	1446	1446	1446	1446	1446
42.5°	1226	1226	1226	1226	1226	1226	1226	1226	1226
45°	1029	1029	1029	1029	1029	1029	1029	1029	1029
47.5°	821	821	821	821	821	821	821	821	821
50°	622	622	622	622	622	622	622	622	622
52.5°	454	454	454	454	454	454	454	454	454
55°	265	265	265	265	265	265	265	265	265
57.5°	130	130	130	130	130	130	130	130	130
60°	50	50	50	50	50	50	50	50	50
62.5°	14	14	14	14	14	14	14	14	14
65°	2	2	2	2	2	2	2	2	2
67.5°	1	1	1	1	1	1	1	1	1
70°	0	0	0	0	0	0	0	0	0
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)