

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: E428378

Luminaire Tested: **M700-740-1770P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: E428378
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: M700-740-1770P
Description: HALO RECESSED HID - LITE COMMERCIAL, GLASS ALBALITE LENS
Light Source: M100C, 8000 LUMENS
Ballast/Driver: -

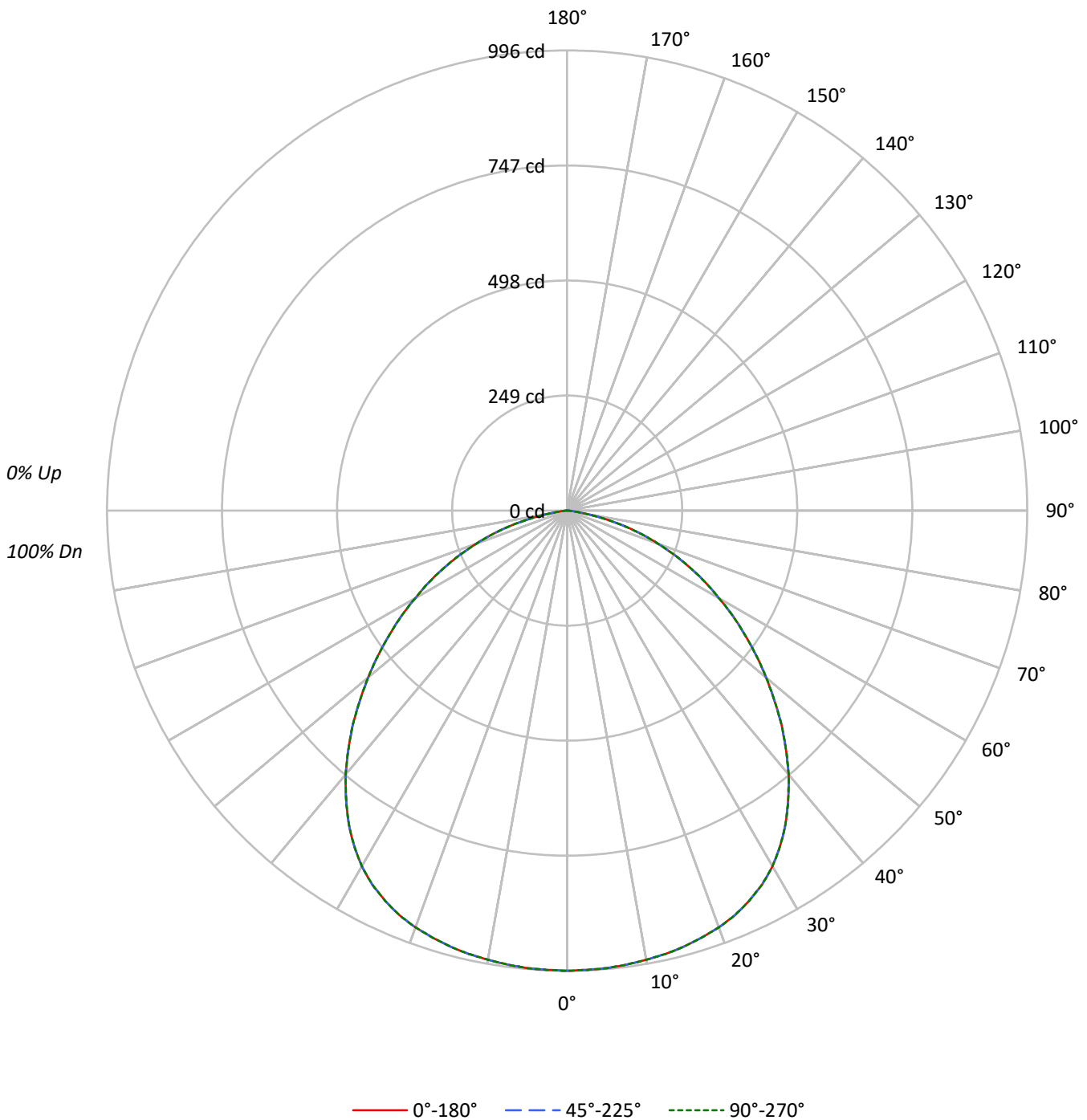
Summary

Lumens per Lamp: 8000 (1 lamp)
Luminaire Lumens: 2679.0 lumens
Efficiency: 33.5%
Efficacy: 20.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.37
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	40	40	40	40	39	39	39	39	37	37	37	36	36	36	34	34	34	33
1	37	35	34	33	36	35	33	32	33	32	31	32	31	30	31	30	29	29
2	34	31	29	27	33	30	28	27	29	28	26	28	27	26	27	26	25	24
3	31	27	25	23	30	27	24	23	26	24	22	25	23	22	24	23	21	21
4	28	24	22	19	27	24	21	19	23	21	19	22	20	19	22	20	18	18
5	26	22	19	17	25	21	19	17	21	18	16	20	18	16	19	18	16	15
6	24	20	17	15	23	19	17	15	19	16	14	18	16	14	18	16	14	14
7	22	18	15	13	22	18	15	13	17	15	13	17	14	13	16	14	13	12
8	21	16	14	12	20	16	13	12	16	13	11	15	13	11	15	13	11	11
9	19	15	12	10	19	15	12	10	14	12	10	14	12	10	14	12	10	10
10	18	14	11	9	18	14	11	9	13	11	9	13	11	9	13	11	9	9

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°	94.6	3.5	1.2
10°-20°	276.2	10.3	3.5
20°-30°	429.2	16.0	5.4
30°-40°	514.5	19.2	6.4
40°-50°	505.1	18.9	6.3
50°-60°	420.8	15.7	5.3
60°-70°	291.6	10.9	3.6
70°-80°	132.4	4.9	1.7
80°-90°	14.5	0.5	0.2
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°	800.0	29.9	10.0
0°-40°	1314.6	49.1	16.4
0°-60°	2240.5	83.6	28.0
0°-90°	2679.0	100.0	33.5
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°	2679.0	100.0	33.5

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	996	996	996	996	996	
5°	994	994	994	994	994	95
15°	977	977	977	977	977	276
25°	932	932	932	932	932	429
35°	825	825	825	825	825	515
45°	656	656	656	656	656	505
55°	470	470	470	470	470	421
65°	295	295	295	295	295	292
75°	125	125	125	125	125	132
85°	8	8	8	8	8	15
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°	996	996	996	996	996	996	996	996	996
2.5°	995	995	995	995	995	995	995	995	995
5°	994	994	994	994	994	994	994	994	994
7.5°	991	991	991	991	991	991	991	991	991
10°	987	987	987	987	987	987	987	987	987
12.5°	983	983	983	983	983	983	983	983	983
15°	977	977	977	977	977	977	977	977	977
17.5°	969	969	969	969	969	969	969	969	969
20°	960	960	960	960	960	960	960	960	960
22.5°	948	948	948	948	948	948	948	948	948
25°	932	932	932	932	932	932	932	932	932
27.5°	913	913	913	913	913	913	913	913	913
30°	889	889	889	889	889	889	889	889	889
32.5°	859	859	859	859	859	859	859	859	859
35°	825	825	825	825	825	825	825	825	825
37.5°	786	786	786	786	786	786	786	786	786
40°	746	746	746	746	746	746	746	746	746
42.5°	701	701	701	701	701	701	701	701	701
45°	656	656	656	656	656	656	656	656	656
47.5°	608	608	608	608	608	608	608	608	608
50°	562	562	562	562	562	562	562	562	562
52.5°	516	516	516	516	516	516	516	516	516
55°	470	470	470	470	470	470	470	470	470
57.5°	426	426	426	426	426	426	426	426	426
60°	380	380	380	380	380	380	380	380	380
62.5°	338	338	338	338	338	338	338	338	338
65°	295	295	295	295	295	295	295	295	295
67.5°	252	252	252	252	252	252	252	252	252
70°	209	209	209	209	209	209	209	209	209
72.5°	168	168	168	168	168	168	168	168	168
75°	125	125	125	125	125	125	125	125	125
77.5°	83	83	83	83	83	83	83	83	83
80°	45	45	45	45	45	45	45	45	45
82.5°	19	19	19	19	19	19	19	19	19
85°	8	8	8	8	8	8	8	8	8
87.5°	4	4	4	4	4	4	4	4	4
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)