

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: E428388

Luminaire Tested: **M700-740-1771P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: E428388
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: M700-740-1771P
Description: HALO RECESSED HID - LITE COMMERCIAL, GLASS DROP OPAL LENS
Light Source: M100C, 8000 LUMENS
Ballast/Driver: -

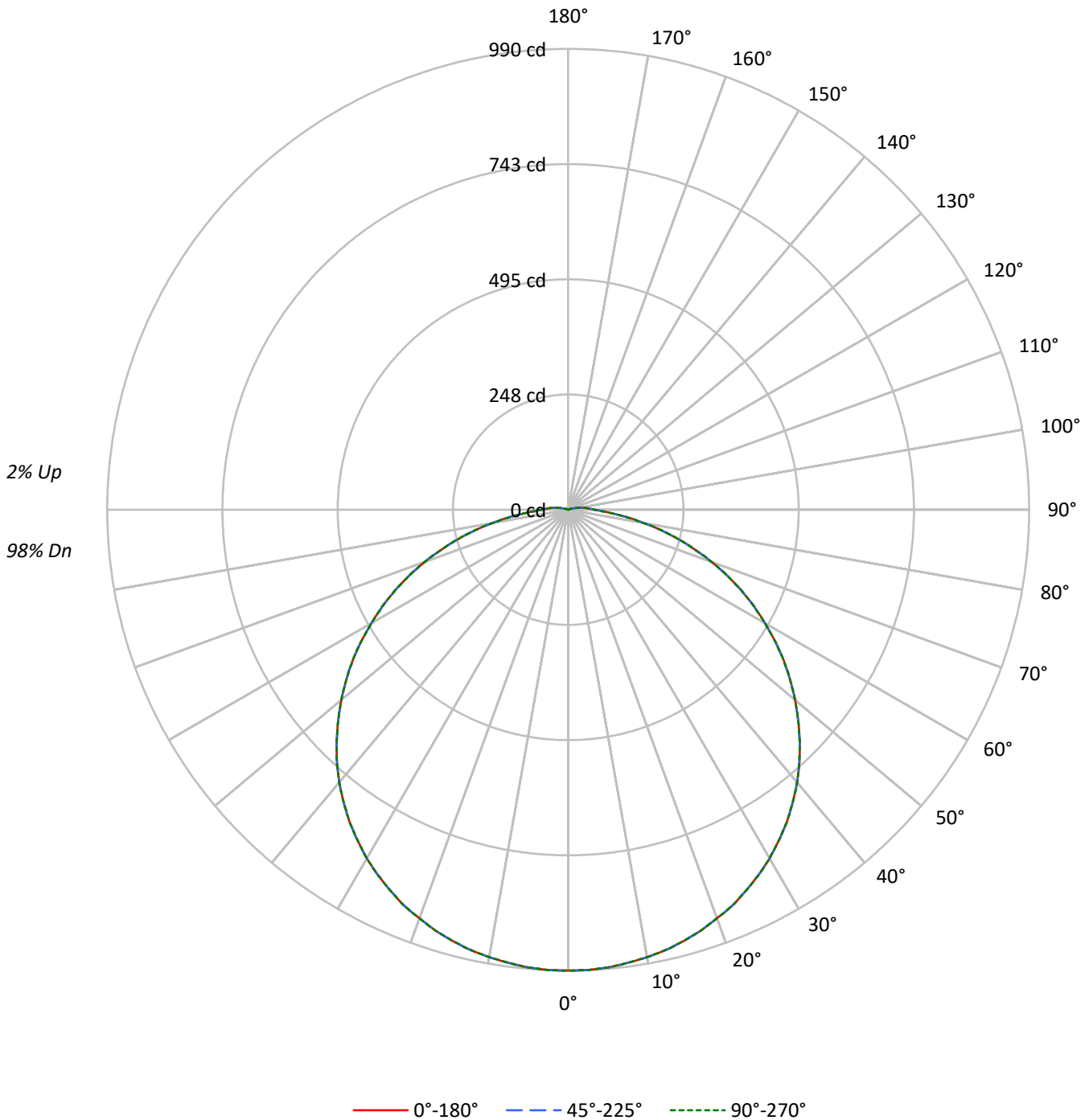
Summary

Lumens per Lamp: 8000 (1 lamp)
Luminaire Lumens: 3173.6 lumens
Efficiency: 39.7%
Efficacy: 24.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.42
Luminous Opening: (L: 0' x W: -0.58' x H: 0.05'
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: E428388
CATALOG NUMBER: M700-740-1771P

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	47	47	47	47	46	46	46	46	44	44	44	42	42	42	40	40	40	39
1	43	41	39	37	41	40	38	36	38	36	35	36	35	34	34	34	33	32
2	39	35	32	30	37	34	32	29	33	30	29	31	29	28	30	28	27	26
3	35	31	27	25	34	30	27	24	29	26	24	27	25	23	26	24	23	22
4	32	27	23	21	31	26	23	20	25	22	20	24	22	20	23	21	19	18
5	29	24	20	18	28	24	20	18	23	20	17	22	19	17	21	19	17	16
6	27	22	18	15	26	21	18	15	20	17	15	20	17	15	19	17	15	14
7	25	20	16	14	24	19	16	13	19	15	13	18	15	13	17	15	13	12
8	23	18	14	12	23	18	14	12	17	14	12	16	14	12	16	13	12	11
9	22	16	13	11	21	16	13	11	16	13	11	15	12	11	15	12	10	10
10	20	15	12	10	20	15	12	10	14	12	10	14	11	10	14	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°			



TEST NUMBER: E428388

CATALOG NUMBER: M700-740-1771P

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	93.9	3.0	1.2
10°-20°	270.9	8.5	3.4
20°-30°	416.6	13.1	5.2
30°-40°	512.0	16.1	6.4
40°-50°	542.4	17.1	6.8
50°-60°	504.5	15.9	6.3
60°-70°	405.2	12.8	5.1
70°-80°	259.2	8.2	3.2
80°-90°	111.5	3.5	1.4
90°-100°	43.8	1.4	0.5
100°-110°	15.3	0.5	0.2
110°-120°	2.2	0.1	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°	781.3	24.6	9.8
0°-40°	1293.4	40.8	16.2
0°-60°	2340.3	73.7	29.3
0°-90°	3116.2	98.2	39.0
90°-120°	61.4	1.9	0.8
90°-150°	61.4	1.9	0.8
90°-180°	61.0	1.9	0.8
0°-180°	3173.6	100.0	39.7

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	990	990	990	990	990	
5°	987	987	987	987	987	94
15°	959	959	959	959	959	271
25°	903	903	903	903	903	417
35°	819	819	819	819	819	512
45°	703	703	703	703	703	542
55°	565	565	565	565	565	505
65°	410	410	410	410	410	405
75°	245	245	245	245	245	259
85°	97	97	97	97	97	94
90°	56	56	56	56	56	32
95°	40	40	40	40	40	30
105°	9	9	9	9	9	15
115°	0	0	0	0	0	2
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: E428388

CATALOG NUMBER: M700-740-1771P

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	990	990	990	990	990	990	990	990	990
2.5°	990	990	990	990	990	990	990	990	990
5°	987	987	987	987	987	987	987	987	987
7.5°	982	982	982	982	982	982	982	982	982
10°	976	976	976	976	976	976	976	976	976
12.5°	969	969	969	969	969	969	969	969	969
15°	959	959	959	959	959	959	959	959	959
17.5°	948	948	948	948	948	948	948	948	948
20°	934	934	934	934	934	934	934	934	934
22.5°	921	921	921	921	921	921	921	921	921
25°	903	903	903	903	903	903	903	903	903
27.5°	885	885	885	885	885	885	885	885	885
30°	865	865	865	865	865	865	865	865	865
32.5°	842	842	842	842	842	842	842	842	842
35°	819	819	819	819	819	819	819	819	819
37.5°	792	792	792	792	792	792	792	792	792
40°	765	765	765	765	765	765	765	765	765
42.5°	735	735	735	735	735	735	735	735	735
45°	703	703	703	703	703	703	703	703	703
47.5°	670	670	670	670	670	670	670	670	670
50°	636	636	636	636	636	636	636	636	636
52.5°	601	601	601	601	601	601	601	601	601
55°	565	565	565	565	565	565	565	565	565
57.5°	527	527	527	527	527	527	527	527	527
60°	488	488	488	488	488	488	488	488	488
62.5°	450	450	450	450	450	450	450	450	450
65°	410	410	410	410	410	410	410	410	410
67.5°	369	369	369	369	369	369	369	369	369
70°	328	328	328	328	328	328	328	328	328
72.5°	286	286	286	286	286	286	286	286	286
75°	245	245	245	245	245	245	245	245	245
77.5°	205	205	205	205	205	205	205	205	205
80°	165	165	165	165	165	165	165	165	165
82.5°	130	130	130	130	130	130	130	130	130
85°	97	97	97	97	97	97	97	97	97
87.5°	72	72	72	72	72	72	72	72	72
90°	56	56	56	56	56	56	56	56	56
95°	40	40	40	40	40	40	40	40	40
105°	9	9	9	9	9	9	9	9	9
115°	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0



TEST NUMBER: E428388

CATALOG NUMBER: M700-740-1771P

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
175°	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0

(END OF REPORT)