

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: E428418

Luminaire Tested: **M700-740-1773P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: E428418
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: M700-740-1773P
Description: HALO RECESSED HID - LITE COMMERCIAL, FRESNEL LENS, HIGH SS
Light Source: M100C, 8000 LUMENS
Ballast/Driver: -

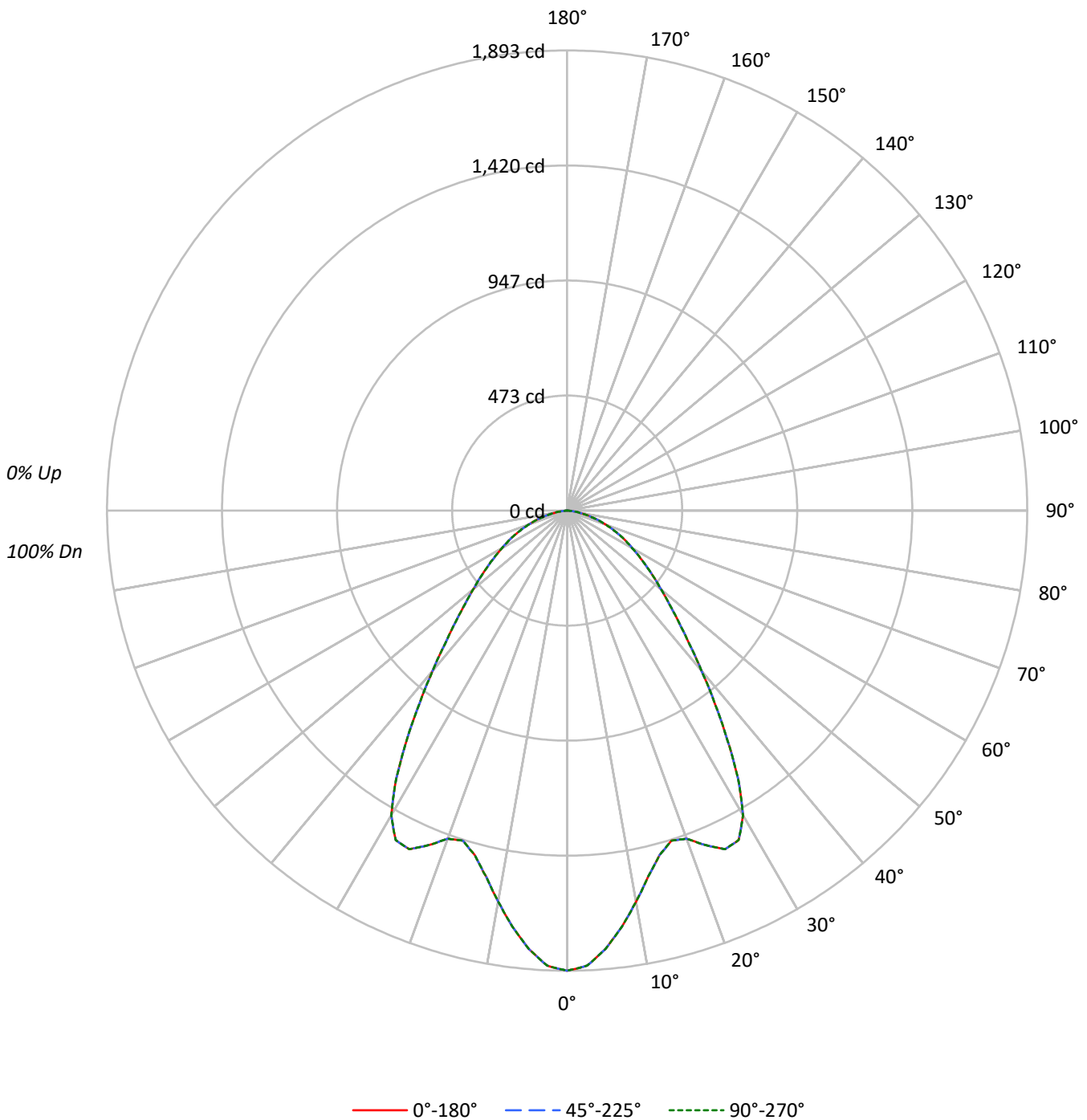
Summary

Lumens per Lamp: 8000 (1 lamp)
Luminaire Lumens: 3231.8 lumens
Efficiency: 40.4%
Efficacy: 25.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.11
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

TEST NUMBER: E428418
CATALOG NUMBER: M700-740-1773P

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	48	48	48	48	47	47	47	47	45	45	45	43	43	43	41	41	41	40
1	45	43	42	40	44	42	41	40	41	40	39	39	38	37	38	37	36	35
2	41	39	36	34	40	38	36	34	36	35	33	35	34	32	34	33	32	31
3	38	35	32	30	37	34	31	29	33	31	29	32	30	28	31	29	28	27
4	35	31	28	26	35	31	28	26	30	27	25	29	27	25	28	26	25	24
5	33	28	25	23	32	28	25	23	27	24	22	26	24	22	26	24	22	21
6	31	26	23	20	30	26	22	20	25	22	20	24	22	20	24	21	20	19
7	29	24	21	18	28	23	20	18	23	20	18	22	20	18	22	20	18	17
8	27	22	19	17	26	22	19	17	21	18	16	21	18	16	20	18	16	16
9	25	20	17	15	25	20	17	15	20	17	15	19	17	15	19	17	15	14
10	24	19	16	14	23	19	16	14	18	16	14	18	15	14	18	15	14	13

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°	167.1	5.2	2.1
10°-20°	419.8	13.0	5.2
20°-30°	694.4	21.5	8.7
30°-40°	716.1	22.2	9.0
40°-50°	508.4	15.7	6.4
50°-60°	357.9	11.1	4.5
60°-70°	235.6	7.3	2.9
70°-80°	112.7	3.5	1.4
80°-90°	19.8	0.6	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°	1281.3	39.6	16.0
0°-40°	1997.4	61.8	25.0
0°-60°	2863.6	88.6	35.8
0°-90°	3231.8	100.0	40.4
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°	3231.8	100.0	40.4

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1893	1893	1893	1893	1893	
5°	1810	1810	1810	1810	1810	167
15°	1467	1467	1467	1467	1467	420
25°	1537	1537	1537	1537	1537	694
35°	1148	1148	1148	1148	1148	716
45°	649	649	649	649	649	508
55°	397	397	397	397	397	358
65°	238	238	238	238	238	236
75°	105	105	105	105	105	113
85°	12	12	12	12	12	20
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°	1893	1893	1893	1893	1893	1893	1893	1893	1893
2.5°	1874	1874	1874	1874	1874	1874	1874	1874	1874
5°	1810	1810	1810	1810	1810	1810	1810	1810	1810
7.5°	1726	1726	1726	1726	1726	1726	1726	1726	1726
10°	1633	1633	1633	1633	1633	1633	1633	1633	1633
12.5°	1542	1542	1542	1542	1542	1542	1542	1542	1542
15°	1467	1467	1467	1467	1467	1467	1467	1467	1467
17.5°	1424	1424	1424	1424	1424	1424	1424	1424	1424
20°	1436	1436	1436	1436	1436	1436	1436	1436	1436
22.5°	1490	1490	1490	1490	1490	1490	1490	1490	1490
25°	1537	1537	1537	1537	1537	1537	1537	1537	1537
27.5°	1528	1528	1528	1528	1528	1528	1528	1528	1528
30°	1447	1447	1447	1447	1447	1447	1447	1447	1447
32.5°	1309	1309	1309	1309	1309	1309	1309	1309	1309
35°	1148	1148	1148	1148	1148	1148	1148	1148	1148
37.5°	996	996	996	996	996	996	996	996	996
40°	860	860	860	860	860	860	860	860	860
42.5°	744	744	744	744	744	744	744	744	744
45°	649	649	649	649	649	649	649	649	649
47.5°	570	570	570	570	570	570	570	570	570
50°	504	504	504	504	504	504	504	504	504
52.5°	448	448	448	448	448	448	448	448	448
55°	397	397	397	397	397	397	397	397	397
57.5°	351	351	351	351	351	351	351	351	351
60°	310	310	310	310	310	310	310	310	310
62.5°	273	273	273	273	273	273	273	273	273
65°	238	238	238	238	238	238	238	238	238
67.5°	203	203	203	203	203	203	203	203	203
70°	168	168	168	168	168	168	168	168	168
72.5°	138	138	138	138	138	138	138	138	138
75°	105	105	105	105	105	105	105	105	105
77.5°	75	75	75	75	75	75	75	75	75
80°	52	52	52	52	52	52	52	52	52
82.5°	30	30	30	30	30	30	30	30	30
85°	12	12	12	12	12	12	12	12	12
87.5°	5	5	5	5	5	5	5	5	5
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)