

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: E428398

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: E428398
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, HIGH SS
Light Source: LU70D, 5400 LUMENS
Ballast/Driver: -

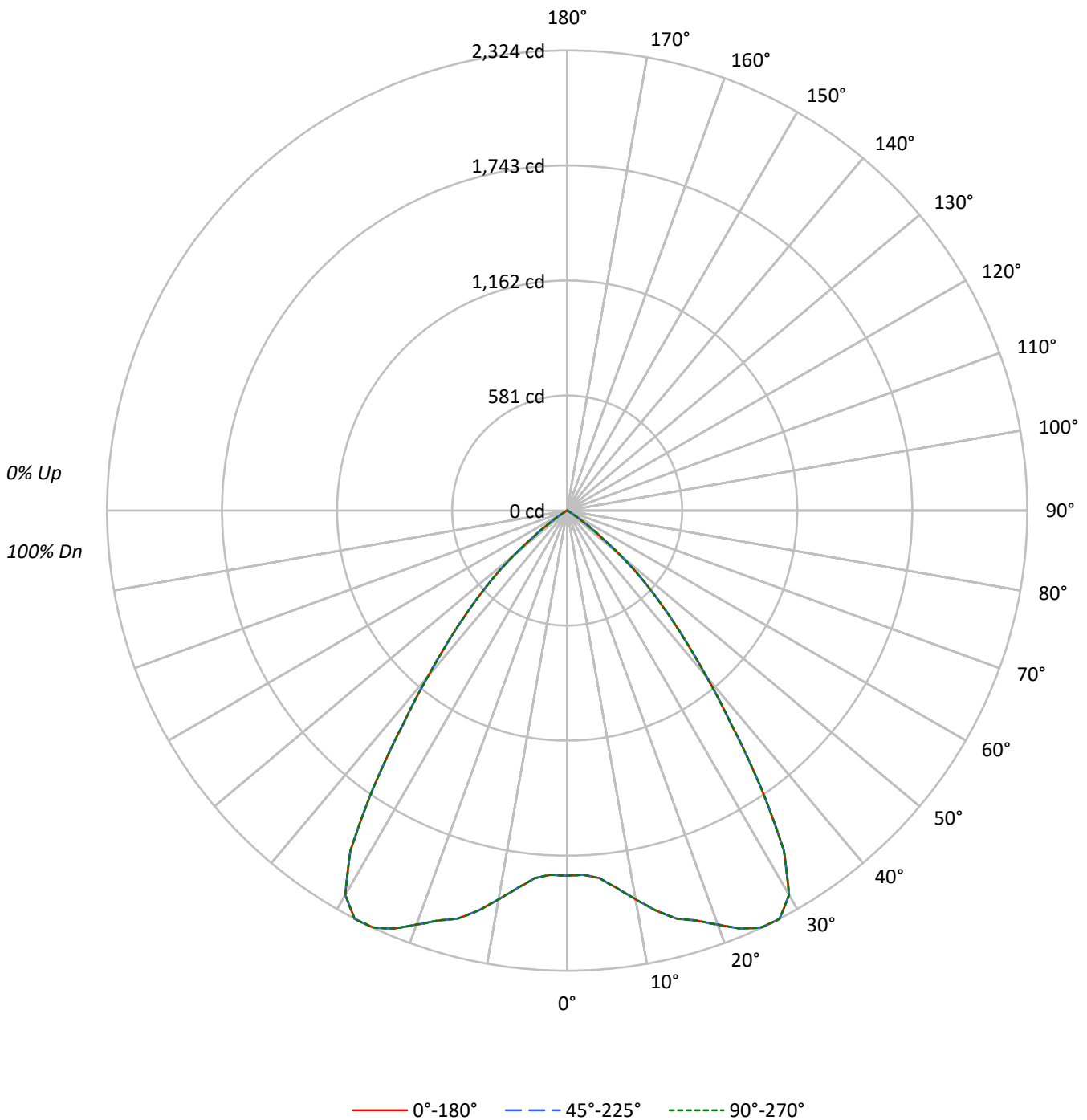
Summary

Lumens per Lamp: 5400 (1 lamp)
Luminaire Lumens: 3538.2 lumens
Efficiency: 65.5%
Efficacy: 40.2 lumens/watt
Spacing Criteria (0/90/45): 1.41 / 1.41 / 1.21
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	78	78	78	78	76	76	76	76	73	73	73		70	70	70		67	67	67	66
1	74	72	70	68	72	70	69	67	68	66	65		65	64	63		63	62	61	60
2	70	66	63	61	68	65	62	60	63	60	58		61	59	57		59	57	56	55
3	65	61	57	54	64	60	56	53	58	55	53		56	54	52		55	53	51	50
4	61	56	52	48	60	55	51	48	53	50	47		52	49	47		51	48	46	45
5	58	51	47	44	56	51	47	43	49	46	43		48	45	43		47	44	42	41
6	54	47	43	40	53	47	43	39	46	42	39		45	41	39		44	41	39	37
7	51	44	39	36	50	43	39	36	42	39	36		42	38	35		41	38	35	34
8	48	41	36	33	47	40	36	33	39	35	33		39	35	33		38	35	32	31
9	45	38	33	30	44	37	33	30	37	33	30		36	32	30		35	32	30	29
10	42	35	31	28	42	35	31	28	34	30	28		34	30	28		33	30	28	27

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°	182.3	5.2	3.4
10°-20°	604.2	17.1	11.2
20°-30°	1061.1	30.0	19.7
30°-40°	1047.9	29.6	19.4
40°-50°	531.8	15.0	9.8
50°-60°	109.0	3.1	2.0
60°-70°	2.0	0.1	0.0
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°	1847.6	52.2	34.2
0°-40°	2895.5	81.8	53.6
0°-60°	3536.3	99.9	65.5
0°-90°	3538.2	100.0	65.5
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°	3538.2	100.0	65.5

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1844	1844	1844	1844	1844	
5°	1863	1863	1863	1863	1863	182
15°	2133	2133	2133	2133	2133	604
25°	2323	2323	2323	2323	2323	1061
35°	1704	1704	1704	1704	1704	1048
45°	679	679	679	679	679	532
55°	93	93	93	93	93	109
65°	2	2	2	2	2	2
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°	1844	1844	1844	1844	1844	1844	1844	1844	1844
2.5°	1840	1840	1840	1840	1840	1840	1840	1840	1840
5°	1863	1863	1863	1863	1863	1863	1863	1863	1863
7.5°	1922	1922	1922	1922	1922	1922	1922	1922	1922
10°	1993	1993	1993	1993	1993	1993	1993	1993	1993
12.5°	2068	2068	2068	2068	2068	2068	2068	2068	2068
15°	2133	2133	2133	2133	2133	2133	2133	2133	2133
17.5°	2171	2171	2171	2171	2171	2171	2171	2171	2171
20°	2225	2225	2225	2225	2225	2225	2225	2225	2225
22.5°	2285	2285	2285	2285	2285	2285	2285	2285	2285
25°	2323	2323	2323	2323	2323	2323	2323	2323	2323
27.5°	2324	2324	2324	2324	2324	2324	2324	2324	2324
30°	2241	2241	2241	2241	2241	2241	2241	2241	2241
32.5°	2036	2036	2036	2036	2036	2036	2036	2036	2036
35°	1704	1704	1704	1704	1704	1704	1704	1704	1704
37.5°	1361	1361	1361	1361	1361	1361	1361	1361	1361
40°	1093	1093	1093	1093	1093	1093	1093	1093	1093
42.5°	870	870	870	870	870	870	870	870	870
45°	679	679	679	679	679	679	679	679	679
47.5°	517	517	517	517	517	517	517	517	517
50°	348	348	348	348	348	348	348	348	348
52.5°	199	199	199	199	199	199	199	199	199
55°	93	93	93	93	93	93	93	93	93
57.5°	30	30	30	30	30	30	30	30	30
60°	6	6	6	6	6	6	6	6	6
62.5°	2	2	2	2	2	2	2	2	2
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)