

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: E428400

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: E428400
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: M700-630-1700BA
Description: HALO RECESSED HID - LITE COMMERCIAL, BAFFLE REFL, LOW SS
Light Source: LU70D, 5400 LUMENS
Ballast/Driver: -

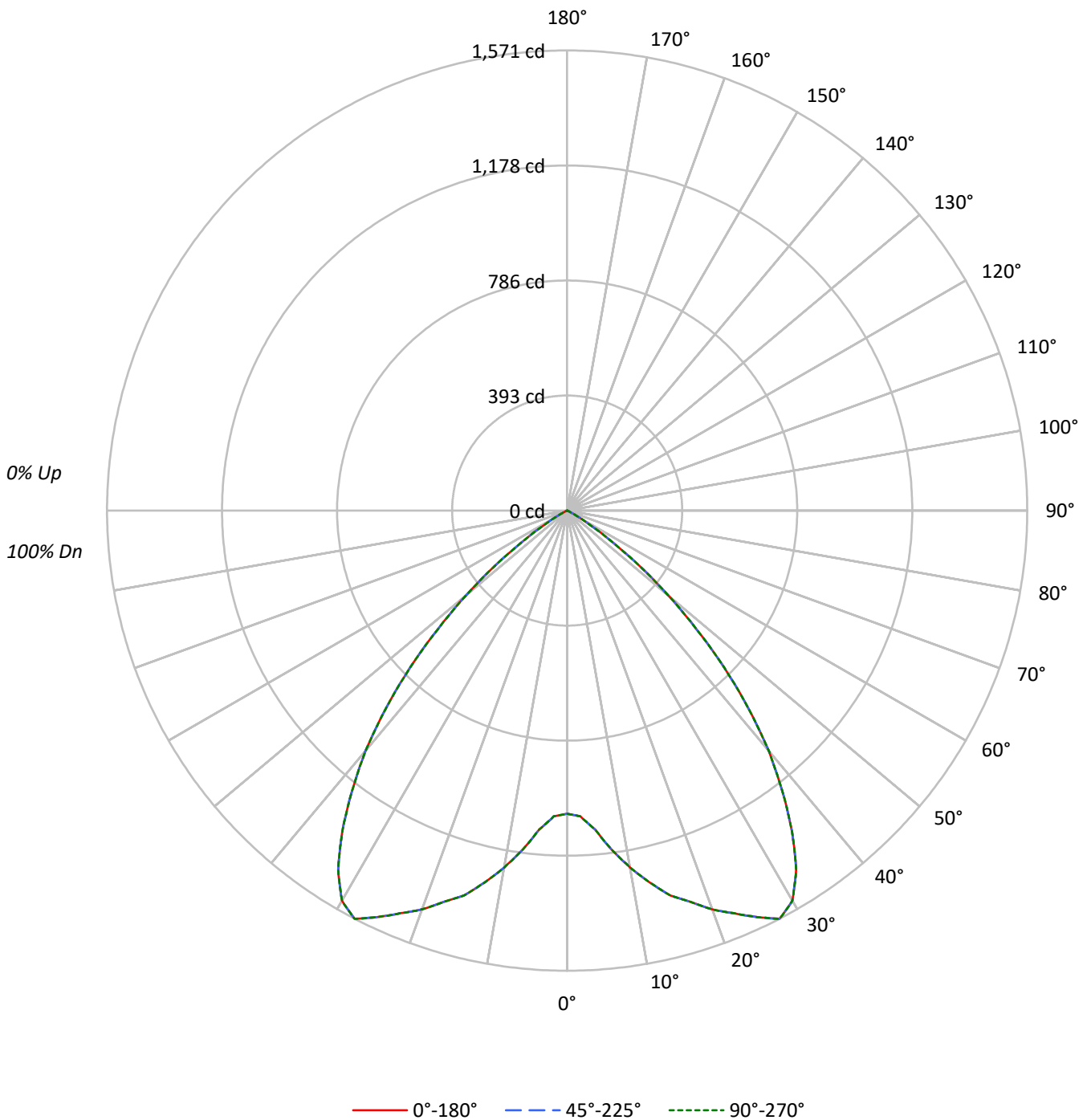
Summary

Lumens per Lamp: 5400 (1 lamp)
Luminaire Lumens: 2814.8 lumens
Efficiency: 52.1%
Efficacy: 32.0 lumens/watt
Spacing Criteria (0/90/45): 1.63 / 1.63 / 1.43
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

TEST NUMBER: E428400
CATALOG NUMBER: M700-630-1700BA

Luminous Intensity Polar Plot





TEST NUMBER: E428400

CATALOG NUMBER: M700-630-1700BA

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	62	62	62	62	61	61	61	61	58	58	58		55	55	55		53	53	53	52
1	59	57	55	54	57	56	54	53	54	52	51		52	51	50		50	49	48	47
2	55	52	49	47	54	51	48	46	49	47	45		47	46	44		46	45	43	43
3	51	47	44	41	50	46	43	41	45	42	40		43	41	40		42	41	39	38
4	48	43	39	37	47	42	39	36	41	38	36		40	37	35		39	37	35	34
5	44	39	35	33	43	39	35	32	37	34	32		37	34	32		36	33	31	31
6	41	36	32	29	41	35	32	29	34	31	29		34	31	29		33	30	28	27
7	39	33	29	26	38	32	29	26	32	28	26		31	28	26		30	28	26	25
8	36	30	26	24	35	30	26	24	29	26	23		29	26	23		28	25	23	22
9	34	28	24	21	33	27	24	21	27	24	21		26	23	21		26	23	21	20
10	32	26	22	20	31	25	22	20	25	22	19		25	22	19		24	21	19	19

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: E428400

CATALOG NUMBER: M700-630-1700BA

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	109.3	3.9	2.0
10°-20°	386.0	13.7	7.1
20°-30°	705.6	25.1	13.1
30°-40°	827.3	29.4	15.3
40°-50°	580.3	20.6	10.7
50°-60°	190.2	6.8	3.5
60°-70°	14.9	0.5	0.3
70°-80°	1.3	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°	1200.8	42.7	22.2
0°-40°	2028.1	72.1	37.6
0°-60°	2798.6	99.4	51.8
0°-90°	2814.8	100.0	52.1
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°	2814.8	100.0	52.1

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1035	1035	1035	1035	1035	
5°	1093	1093	1093	1093	1093	109
15°	1360	1360	1360	1360	1360	386
25°	1531	1531	1531	1531	1531	706
35°	1339	1339	1339	1339	1339	827
45°	758	758	758	758	758	580
55°	194	194	194	194	194	190
65°	9	9	9	9	9	15
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: E428400

CATALOG NUMBER: M700-630-1700BA

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1035	1035	1035	1035	1035	1035	1035	1035	1035
2.5°	1045	1045	1045	1045	1045	1045	1045	1045	1045
5°	1093	1093	1093	1093	1093	1093	1093	1093	1093
7.5°	1168	1168	1168	1168	1168	1168	1168	1168	1168
10°	1237	1237	1237	1237	1237	1237	1237	1237	1237
12.5°	1300	1300	1300	1300	1300	1300	1300	1300	1300
15°	1360	1360	1360	1360	1360	1360	1360	1360	1360
17.5°	1401	1401	1401	1401	1401	1401	1401	1401	1401
20°	1449	1449	1449	1449	1449	1449	1449	1449	1449
22.5°	1488	1488	1488	1488	1488	1488	1488	1488	1488
25°	1531	1531	1531	1531	1531	1531	1531	1531	1531
27.5°	1571	1571	1571	1571	1571	1571	1571	1571	1571
30°	1538	1538	1538	1538	1538	1538	1538	1538	1538
32.5°	1455	1455	1455	1455	1455	1455	1455	1455	1455
35°	1339	1339	1339	1339	1339	1339	1339	1339	1339
37.5°	1207	1207	1207	1207	1207	1207	1207	1207	1207
40°	1070	1070	1070	1070	1070	1070	1070	1070	1070
42.5°	916	916	916	916	916	916	916	916	916
45°	758	758	758	758	758	758	758	758	758
47.5°	598	598	598	598	598	598	598	598	598
50°	449	449	449	449	449	449	449	449	449
52.5°	316	316	316	316	316	316	316	316	316
55°	194	194	194	194	194	194	194	194	194
57.5°	105	105	105	105	105	105	105	105	105
60°	48	48	48	48	48	48	48	48	48
62.5°	21	21	21	21	21	21	21	21	21
65°	9	9	9	9	9	9	9	9	9
67.5°	6	6	6	6	6	6	6	6	6
70°	2	2	2	2	2	2	2	2	2
72.5°	2	2	2	2	2	2	2	2	2
75°	1	1	1	1	1	1	1	1	1
77.5°	1	1	1	1	1	1	1	1	1
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)