

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: E428374

Luminaire Tested: **M700-630-1770P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: E428374
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: M700-630-1770P
Description: HALO RECESSED HID - LITE COMMERCIAL, GLASS ALBALITE LENS
Light Source: LU70D, 5400 LUMENS
Ballast/Driver: -

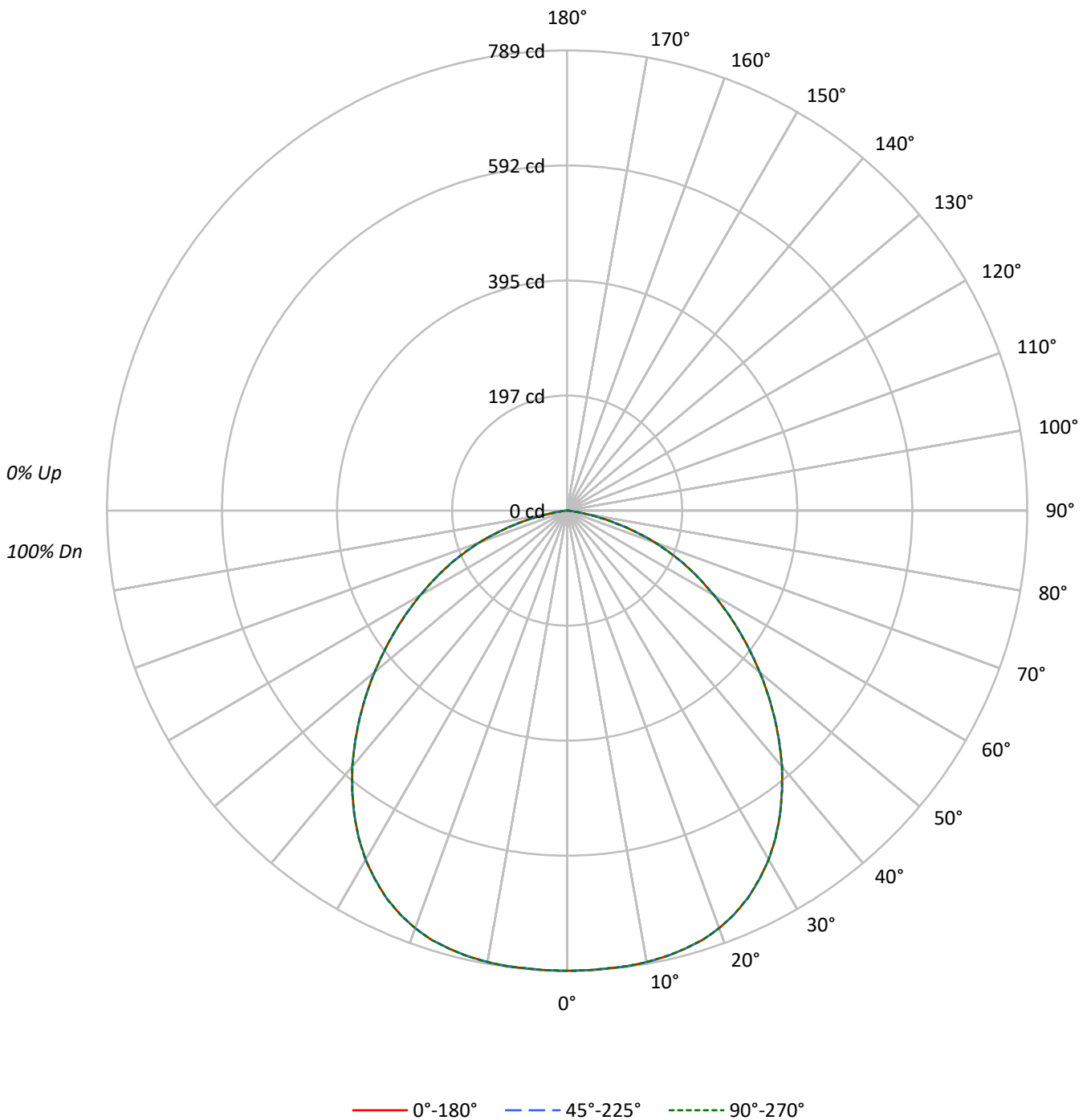
Summary

Lumens per Lamp: 5400 (1 lamp)
Luminaire Lumens: 2070.0 lumens
Efficiency: 38.3%
Efficacy: 23.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.35
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	46	46	46	46	45	45	45	45	43	43	43	41	41	41	39	39	39	38
1	42	40	39	38	41	40	38	37	38	37	36	36	36	35	35	34	34	33
2	39	36	33	31	38	35	33	31	34	32	30	32	31	29	31	30	29	28
3	35	31	28	26	34	31	28	26	30	27	25	29	27	25	28	26	25	24
4	32	28	25	22	32	27	24	22	27	24	22	26	23	22	25	23	21	20
5	30	25	22	19	29	25	22	19	24	21	19	23	21	19	22	20	19	18
6	28	23	19	17	27	22	19	17	22	19	17	21	18	17	20	18	16	16
7	26	21	17	15	25	20	17	15	20	17	15	19	17	15	19	16	15	14
8	24	19	16	13	23	19	16	13	18	15	13	18	15	13	17	15	13	12
9	22	17	14	12	22	17	14	12	17	14	12	16	14	12	16	14	12	11
10	21	16	13	11	20	16	13	11	15	13	11	15	13	11	15	12	11	10

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°	75.2	3.6	1.4
10°-20°	219.8	10.6	4.1
20°-30°	337.1	16.3	6.2
30°-40°	397.1	19.2	7.4
40°-50°	387.7	18.7	7.2
50°-60°	322.0	15.6	6.0
60°-70°	223.1	10.8	4.1
70°-80°	98.1	4.7	1.8
80°-90°	9.8	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°	632.1	30.5	11.7
0°-40°	1029.3	49.7	19.1
0°-60°	1738.9	84.0	32.2
0°-90°	2070.0	100.0	38.3
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°	2070.0	100.0	38.3

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	789	789	789	789	789	
5°	788	788	788	788	788	75
15°	778	778	778	778	778	220
25°	733	733	733	733	733	337
35°	636	636	636	636	636	397
45°	503	503	503	503	503	388
55°	360	360	360	360	360	322
65°	226	226	226	226	226	223
75°	92	92	92	92	92	98
85°	6	6	6	6	6	10
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°	789	789	789	789	789	789	789	789	789
2.5°	789	789	789	789	789	789	789	789	789
5°	788	788	788	788	788	788	788	788	788
7.5°	788	788	788	788	788	788	788	788	788
10°	786	786	786	786	786	786	786	786	786
12.5°	783	783	783	783	783	783	783	783	783
15°	778	778	778	778	778	778	778	778	778
17.5°	772	772	772	772	772	772	772	772	772
20°	762	762	762	762	762	762	762	762	762
22.5°	749	749	749	749	749	749	749	749	749
25°	733	733	733	733	733	733	733	733	733
27.5°	713	713	713	713	713	713	713	713	713
30°	691	691	691	691	691	691	691	691	691
32.5°	665	665	665	665	665	665	665	665	665
35°	636	636	636	636	636	636	636	636	636
37.5°	605	605	605	605	605	605	605	605	605
40°	573	573	573	573	573	573	573	573	573
42.5°	538	538	538	538	538	538	538	538	538
45°	503	503	503	503	503	503	503	503	503
47.5°	467	467	467	467	467	467	467	467	467
50°	431	431	431	431	431	431	431	431	431
52.5°	395	395	395	395	395	395	395	395	395
55°	360	360	360	360	360	360	360	360	360
57.5°	325	325	325	325	325	325	325	325	325
60°	291	291	291	291	291	291	291	291	291
62.5°	258	258	258	258	258	258	258	258	258
65°	226	226	226	226	226	226	226	226	226
67.5°	193	193	193	193	193	193	193	193	193
70°	160	160	160	160	160	160	160	160	160
72.5°	127	127	127	127	127	127	127	127	127
75°	92	92	92	92	92	92	92	92	92
77.5°	59	59	59	59	59	59	59	59	59
80°	30	30	30	30	30	30	30	30	30
82.5°	12	12	12	12	12	12	12	12	12
85°	6	6	6	6	6	6	6	6	6
87.5°	3	3	3	3	3	3	3	3	3
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)