

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: E428415

Luminaire Tested: **M700-630-1773P**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-46-04  
Report Number: E428415  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: M700-630-1773P  
Description: HALO RECESSED HID - LITE COMMERCIAL, FRESNEL LENS, HIGH SS  
Light Source: LU70D, 5400 LUMENS  
Ballast/Driver: -

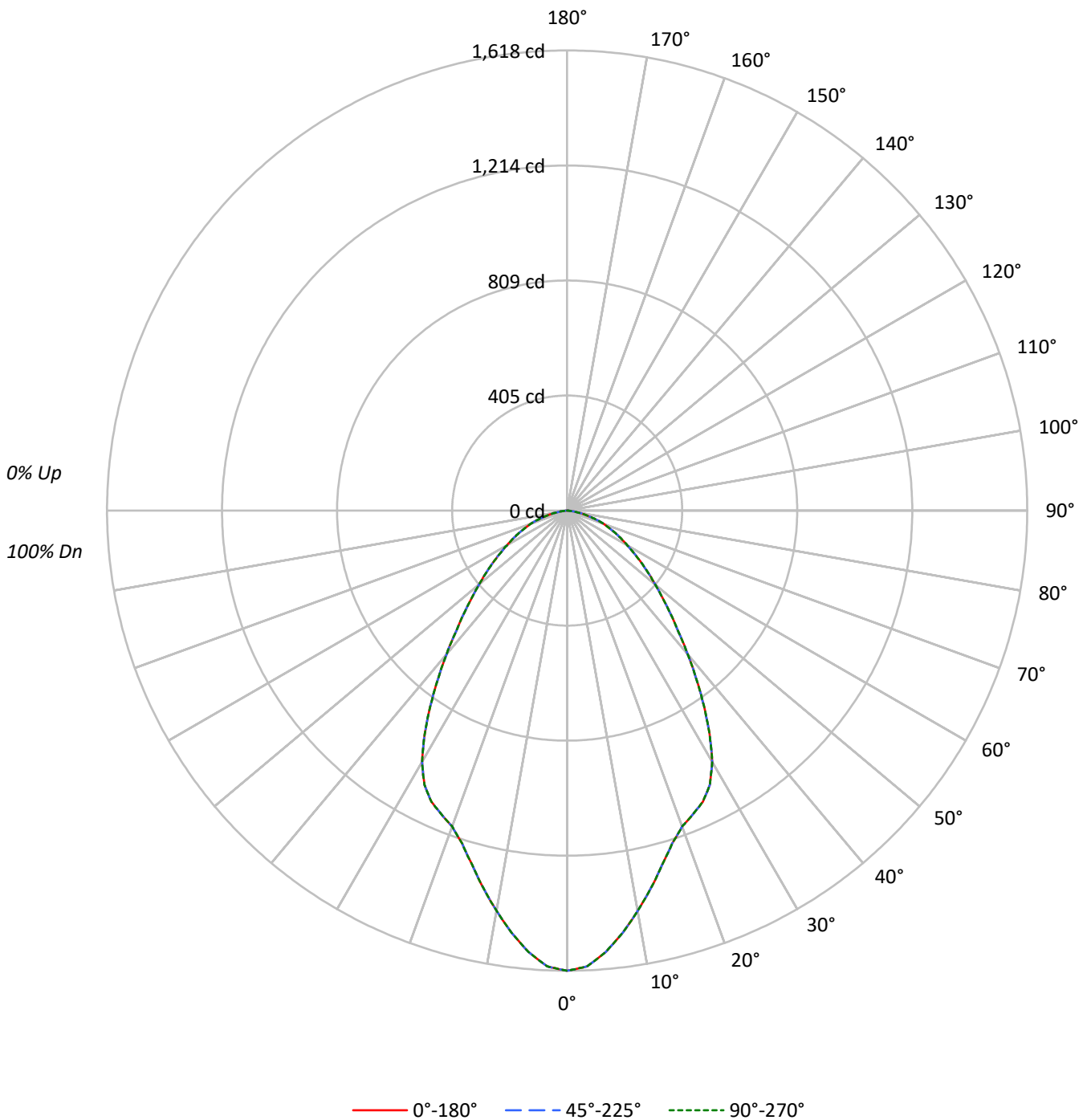
**Summary**

Lumens per Lamp: 5400 (1 lamp)  
Luminaire Lumens: 2522.0 lumens  
Efficiency: 46.7%  
Efficacy: 28.7 lumens/watt  
Spacing Criteria (0/90/45): 0.97 / 0.97 / 1.05  
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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	56	56	56	56	54	54	54	54	52	52	52	50	50	50	48	48	48	47	47	47
1	52	50	48	47	51	49	47	46	47	46	45	45	44	43	43	43	42	41	41	41
2	48	45	42	40	47	44	41	39	42	40	38	41	39	37	39	38	37	36	36	36
3	44	40	37	34	43	39	36	34	38	35	33	37	35	33	36	34	32	31	31	31
4	41	36	33	30	40	36	32	30	35	32	29	33	31	29	33	30	29	28	28	28
5	38	33	29	27	37	32	29	26	31	28	26	31	28	26	30	27	26	25	25	25
6	36	30	26	24	35	30	26	24	29	26	23	28	25	23	27	25	23	22	22	22
7	33	28	24	21	33	27	24	21	27	23	21	26	23	21	25	23	21	20	20	20
8	31	25	22	19	31	25	22	19	25	21	19	24	21	19	24	21	19	18	18	18
9	29	24	20	18	29	23	20	18	23	20	18	22	20	18	22	19	18	17	17	17
10	28	22	19	16	27	22	19	16	21	18	16	21	18	16	21	18	16	15	15	15

**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°	144.6	5.7	2.7
10°-20°	363.7	14.4	6.7
20°-30°	515.5	20.4	9.5
30°-40°	522.6	20.7	9.7
40°-50°	400.2	15.9	7.4
50°-60°	285.2	11.3	5.3
60°-70°	185.8	7.4	3.4
70°-80°	89.8	3.6	1.7
80°-90°	14.7	0.6	0.3
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°	1023.8	40.6	19.0
0°-40°	1546.4	61.3	28.6
0°-60°	2231.8	88.5	41.3
0°-90°	2522.0	100.0	46.7
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°	2522.0	100.0	46.7

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1618	1618	1618	1618	1618	
5°	1558	1558	1558	1558	1558	145
15°	1290	1290	1290	1290	1290	364
25°	1129	1129	1129	1129	1129	516
35°	838	838	838	838	838	523
45°	514	514	514	514	514	400
55°	317	317	317	317	317	285
65°	187	187	187	187	187	186
75°	83	83	83	83	83	90
85°	8	8	8	8	8	15
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°	1618	1618	1618	1618	1618	1618	1618	1618	1618
2.5°	1604	1604	1604	1604	1604	1604	1604	1604	1604
5°	1558	1558	1558	1558	1558	1558	1558	1558	1558
7.5°	1497	1497	1497	1497	1497	1497	1497	1497	1497
10°	1429	1429	1429	1429	1429	1429	1429	1429	1429
12.5°	1360	1360	1360	1360	1360	1360	1360	1360	1360
15°	1290	1290	1290	1290	1290	1290	1290	1290	1290
17.5°	1228	1228	1228	1228	1228	1228	1228	1228	1228
20°	1182	1182	1182	1182	1182	1182	1182	1182	1182
22.5°	1156	1156	1156	1156	1156	1156	1156	1156	1156
25°	1129	1129	1129	1129	1129	1129	1129	1129	1129
27.5°	1087	1087	1087	1087	1087	1087	1087	1087	1087
30°	1020	1020	1020	1020	1020	1020	1020	1020	1020
32.5°	932	932	932	932	932	932	932	932	932
35°	838	838	838	838	838	838	838	838	838
37.5°	746	746	746	746	746	746	746	746	746
40°	660	660	660	660	660	660	660	660	660
42.5°	580	580	580	580	580	580	580	580	580
45°	514	514	514	514	514	514	514	514	514
47.5°	455	455	455	455	455	455	455	455	455
50°	404	404	404	404	404	404	404	404	404
52.5°	358	358	358	358	358	358	358	358	358
55°	317	317	317	317	317	317	317	317	317
57.5°	278	278	278	278	278	278	278	278	278
60°	245	245	245	245	245	245	245	245	245
62.5°	215	215	215	215	215	215	215	215	215
65°	187	187	187	187	187	187	187	187	187
67.5°	159	159	159	159	159	159	159	159	159
70°	136	136	136	136	136	136	136	136	136
72.5°	110	110	110	110	110	110	110	110	110
75°	83	83	83	83	83	83	83	83	83
77.5°	60	60	60	60	60	60	60	60	60
80°	40	40	40	40	40	40	40	40	40
82.5°	23	23	23	23	23	23	23	23	23
85°	8	8	8	8	8	8	8	8	8
87.5°	3	3	3	3	3	3	3	3	3
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)