

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: H32013

Luminaire Tested: **M200-25**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H32013
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: M200-25
Description: HALO 13" SQ. RECESSED HID
SPECULAR REFLECTOR ALL GLAS LENS
Light Source: M100/C/U/MED 100 WATTS 8000 LUMENS
ED-17 COATED METAL HALIDE
Ballast/Driver: -

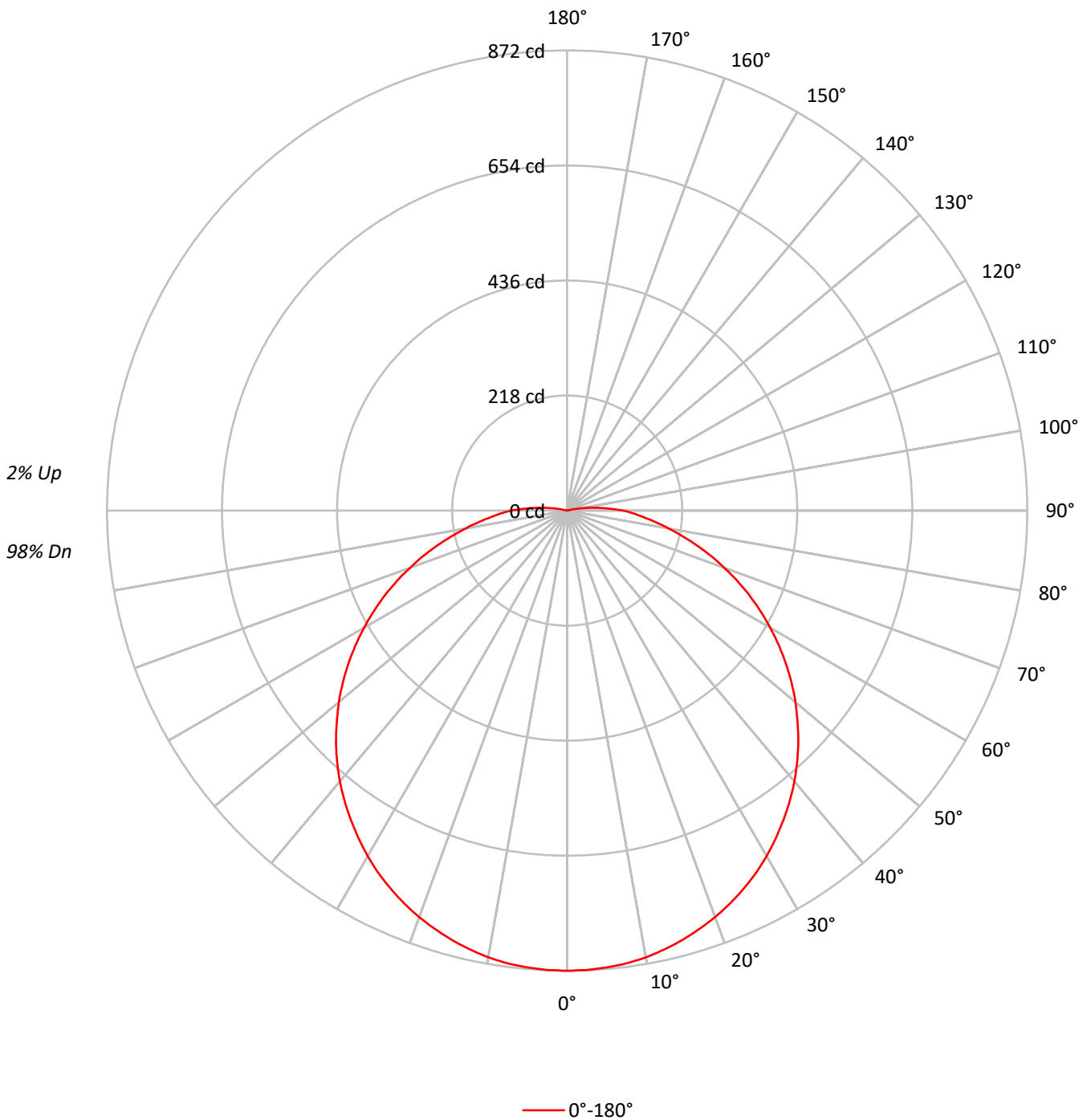
Summary

Lumens per Lamp: 8000 (1 lamp)
Luminaire Lumens: 2942.3 lumens
Efficiency: 36.8%
Efficacy: 25.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.98' x L: 0.98' x H: 0.2')
CIE Type: Direct

Input Watts (W): 115
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	44	44	44	44	42	42	42	42	40	40	40	38	38	38	37	37	37	36
1	39	37	35	33	38	36	34	33	34	33	32	33	32	31	31	30	29	29
2	35	32	29	27	34	31	29	26	30	27	26	28	26	25	27	25	24	23
3	32	28	25	22	31	27	24	22	26	23	21	25	22	21	24	22	20	19
4	29	24	21	18	28	24	21	18	23	20	18	22	19	17	21	19	17	16
5	27	22	18	16	26	21	18	16	20	18	15	20	17	15	19	17	15	14
6	25	20	16	14	24	19	16	14	18	15	13	18	15	13	17	15	13	12
7	23	18	14	12	22	17	14	12	17	14	12	16	14	12	15	13	11	11
8	21	16	13	11	21	16	13	11	15	12	10	15	12	10	14	12	10	9
9	20	15	12	10	19	15	12	9	14	11	9	14	11	9	13	11	9	8
10	19	14	11	9	18	13	11	9	13	10	8	13	10	8	12	10	8	8

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9774
5°	9606
10°	9444
15°	9270
20°	9103
25°	8932
30°	8751
35°	8560
40°	8372
45°	8156
50°	7923
55°	7659
60°	7362
65°	7037
70°	6654
75°	6253
80°	5846
85°	5634



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	82.7	2.8	1.0
10°-20°	238.0	8.1	3.0
20°-30°	364.8	12.4	4.6
30°-40°	447.7	15.2	5.6
40°-50°	478.0	16.2	6.0
50°-60°	452.6	15.4	5.7
60°-70°	377.6	12.8	4.7
70°-80°	269.2	9.1	3.4
80°-90°	161.3	5.5	2.0
90°-100°	65.7	2.2	0.8
100°-110°	4.8	0.2	0.1
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°	685.4	23.3	8.6
0°-40°	1133.0	38.5	14.2
0°-60°	2063.6	70.1	25.8
0°-90°	2871.8	97.6	35.9
90°-120°	70.5	2.4	0.9
90°-150°	70.5	2.4	0.9
90°-180°	71.0	2.4	0.9
0°-180°	2942.3	100.0	36.8

CANDELA DISTRIBUTION:

	0°	Flux
0°	872	
5°	869	83
15°	843	238
25°	791	365
35°	715	448
45°	620	478
55°	506	453
65°	382	378
75°	254	269
85°	146	130
90°	106	58
95°	59	40
105°	2	5
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



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CANDELA DISTRIBUTION (FULL):

0°	
0°	872.1
2.5°	871.2
5°	869.1
7.5°	865.3
10°	859.7
12.5°	851.8
15°	842.6
17.5°	831.8
20°	819.9
22.5°	806.2
25°	791.0
27.5°	774.5
30°	755.9
32.5°	736.0
35°	715.0
37.5°	693.1
40°	670.2
42.5°	645.5
45°	619.6
47.5°	591.9
50°	564.9
52.5°	536.0
55°	506.2
57.5°	475.7
60°	444.5
62.5°	413.2
65°	381.5
67.5°	349.5
70°	316.9
72.5°	285.6
75°	254.4
77.5°	223.4
80°	195.4
82.5°	169.0
85°	146.0
87.5°	126.1
90°	106.2
92.5°	81.6
95°	58.6
97.5°	37.7
100°	18.8
102.5°	7.1
105°	1.5
107.5°	0.0
110°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)