

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: H32011

Luminaire Tested: **M200-20P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H32011
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: M200-20P
Description: HALO 10" SQ. RECESSED HID
SPECULAR REFLECTOR ALBALITE TRIM
Light Source: M100/C/U/MED 100 WATTS 8000 LUMENS
ED-17 COATED
Ballast/Driver: -

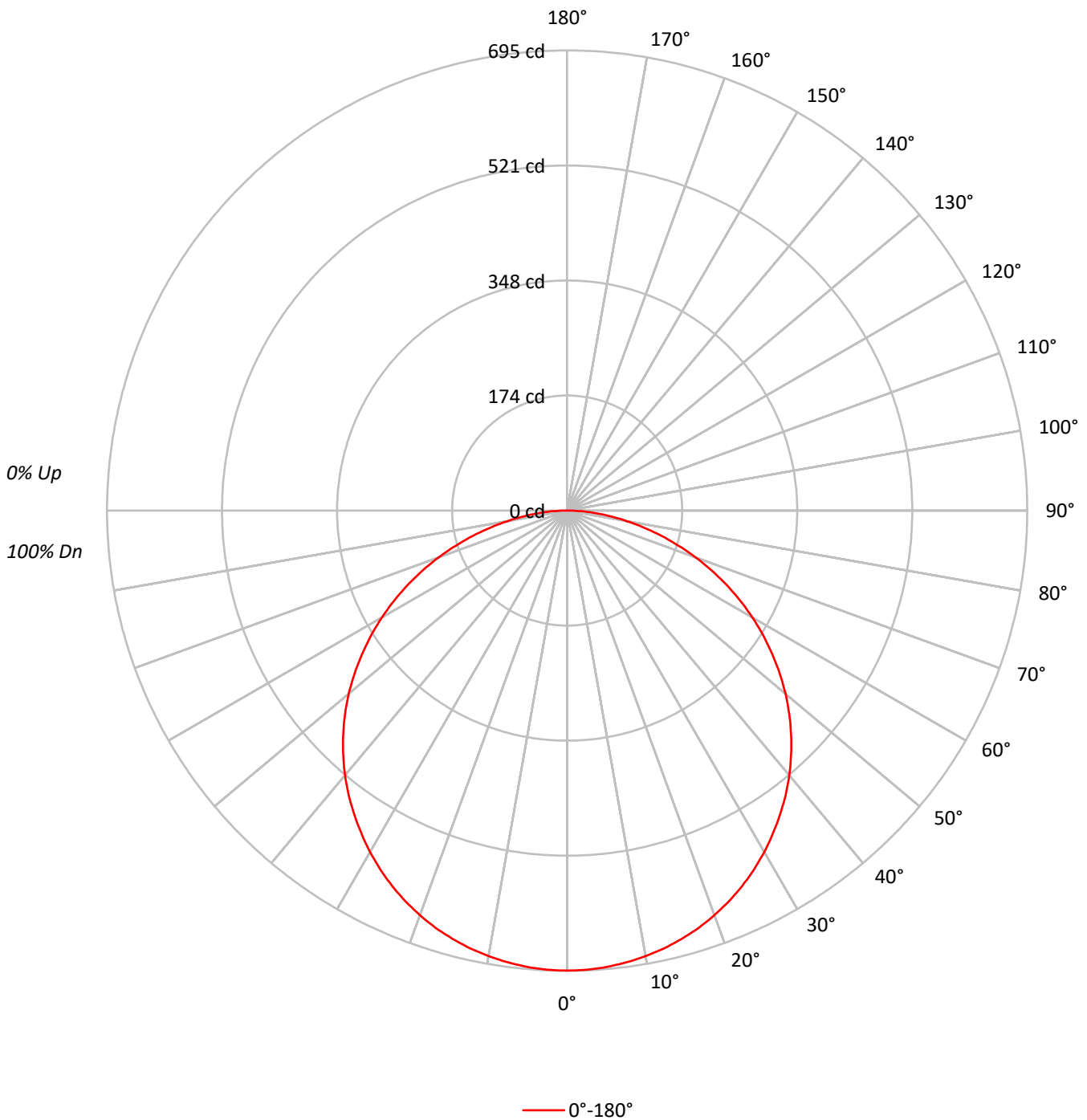
Summary

Lumens per Lamp: 8000 (1 lamp)
Luminaire Lumens: 2066.9 lumens
Efficiency: 25.8%
Efficacy: 18.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.4
Luminous Opening: Rectangular (W 0.72' x L: 0.72' x H: 0')
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	31	31	31	31	30	30	30	30	29	29	29	27	27	27	26	26	26	26
1	28	27	26	25	27	26	25	24	25	24	23	24	23	23	23	23	22	21
2	25	23	21	20	25	23	21	20	22	20	19	21	20	19	20	19	18	18
3	23	20	18	16	22	20	18	16	19	17	16	18	17	16	18	16	15	15
4	21	18	16	14	21	18	15	14	17	15	14	16	15	13	16	14	13	13
5	19	16	14	12	19	16	13	12	15	13	12	15	13	12	14	13	11	11
6	18	14	12	10	17	14	12	10	14	12	10	13	11	10	13	11	10	9
7	17	13	11	9	16	13	11	9	12	10	9	12	10	9	12	10	9	8
8	15	12	10	8	15	12	10	8	11	9	8	11	9	8	11	9	8	7
9	14	11	9	7	14	11	9	7	10	9	7	10	8	7	10	8	7	7
10	14	10	8	7	13	10	8	7	10	8	7	9	8	7	9	8	6	6

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	14427
5°	14419
10°	14409
15°	14394
20°	14367
25°	14333
30°	14280
35°	14210
40°	14149
45°	14051
50°	13910
55°	13687
60°	13430
65°	13044
70°	12518
75°	11817
80°	10881
85°	10149



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	65.8	3.2	0.8
10°-20°	189.0	9.1	2.4
20°-30°	288.4	14.0	3.6
30°-40°	350.9	17.0	4.4
40°-50°	368.9	17.9	4.6
50°-60°	338.0	16.4	4.2
60°-70°	262.6	12.7	3.3
70°-80°	155.8	7.5	1.9
80°-90°	47.5	2.3	0.6
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°	543.2	26.3	6.8
0°-40°	894.0	43.3	11.2
0°-60°	1601.0	77.5	20.0
0°-90°	2066.9	100.0	25.8
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°	2066.9	100.0	25.8

CANDELA DISTRIBUTION:

	0°	Flux
0°	695	
5°	692	66
15°	670	189
25°	626	288
35°	561	351
45°	478	369
55°	378	338
65°	266	263
75°	147	156
85°	43	45
90°	0	3
95°	0	0
105°	0	0
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°	694.8
2.5°	694.3
5°	691.8
7.5°	688.2
10°	683.4
12.5°	677.2
15°	669.6
17.5°	660.8
20°	650.2
22.5°	638.7
25°	625.6
27.5°	611.1
30°	595.6
32.5°	578.4
35°	560.6
37.5°	542.0
40°	522.0
42.5°	500.8
45°	478.5
47.5°	455.0
50°	430.6
52.5°	404.8
55°	378.1
57.5°	351.2
60°	323.4
62.5°	294.6
65°	265.5
67.5°	236.2
70°	206.2
72.5°	176.5
75°	147.3
77.5°	118.4
80°	91.0
82.5°	65.1
85°	42.6
87.5°	21.4
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
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)