

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: H32015

Luminaire Tested: **M200-120P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H32015
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: M200-120P
Description: HALO 13" SQ. RECESSED HID
SPECULAR REFLECTOR REGRESSED ALBALITE TRIM
Light Source: M100/C/U/MED 100 WATTS 8000 LUMENS
ED-17 COATED METAL HALIDE
Ballast/Driver: -

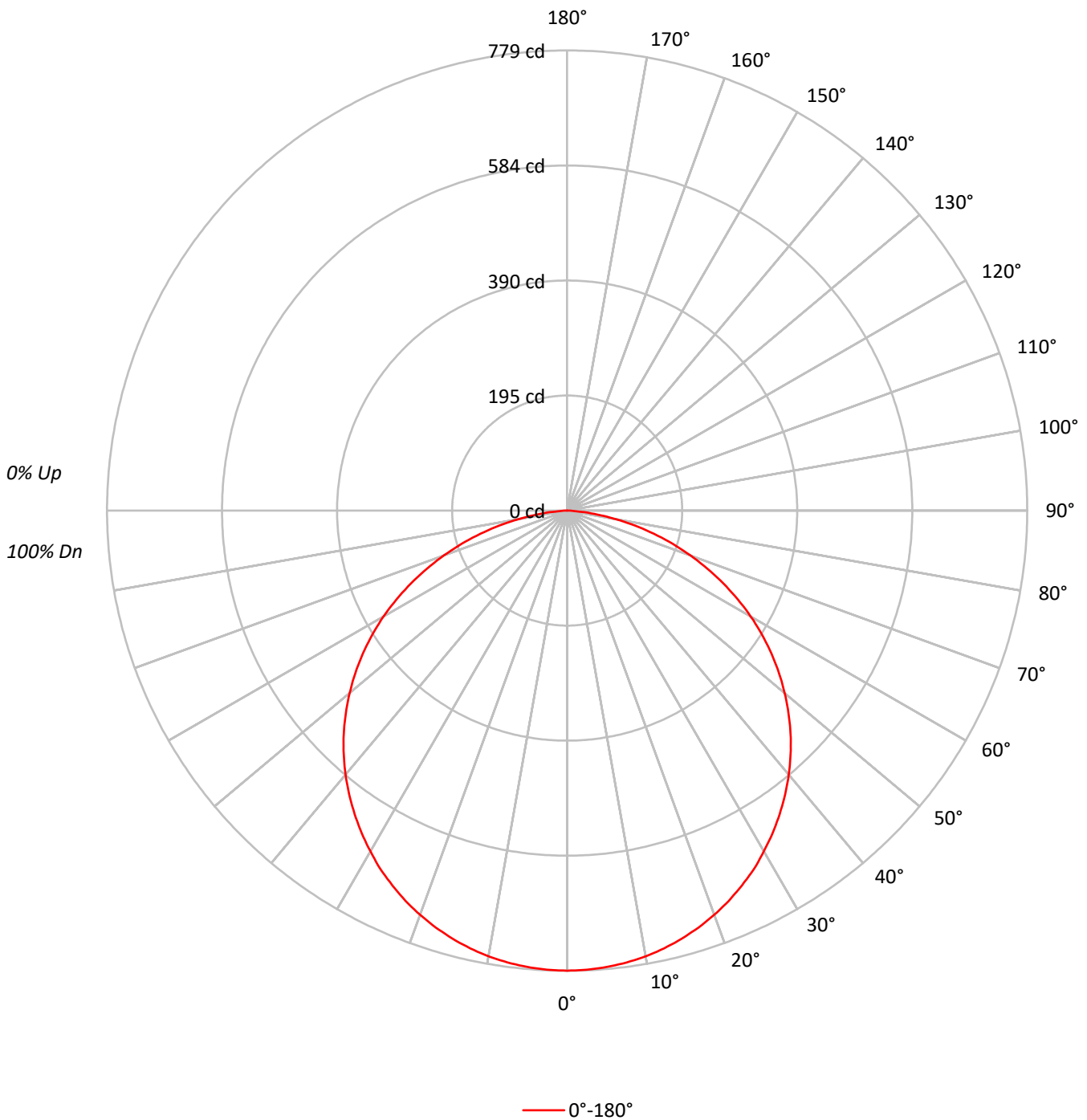
Summary

Lumens per Lamp: 8000 (1 lamp)
Luminaire Lumens: 2272.7 lumens
Efficiency: 28.4%
Efficacy: 19.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Rectangular (W 0.8' x L: 0.8' 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	34	34	34	34	33	33	33	33	32	32	32	30	30	30	29	29	29	28
1	31	30	28	27	30	29	28	27	28	27	26	27	26	25	26	25	24	24
2	28	26	24	22	27	25	23	22	24	23	21	23	22	21	22	21	20	20
3	26	23	20	18	25	22	20	18	21	19	18	20	19	18	20	18	17	17
4	23	20	17	15	23	20	17	15	19	17	15	18	16	15	18	16	15	14
5	21	18	15	13	21	17	15	13	17	15	13	16	14	13	16	14	13	12
6	20	16	13	12	19	16	13	12	15	13	11	15	13	11	14	13	11	11
7	18	14	12	10	18	14	12	10	14	12	10	13	11	10	13	11	10	9
8	17	13	11	9	17	13	11	9	13	10	9	12	10	9	12	10	9	8
9	16	12	10	8	16	12	10	8	12	10	8	11	9	8	11	9	8	7
10	15	11	9	7	15	11	9	7	11	9	7	10	9	7	10	8	7	7

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13102
5°	13094
10°	13087
15°	13066
20°	13035
25°	12990
30°	12938
35°	12880
40°	12820
45°	12723
50°	12578
55°	12383
60°	12079
65°	11601
70°	10912
75°	9884
80°	8184
85°	4554



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	73.7	3.2	0.9
10°-20°	211.8	9.3	2.6
20°-30°	322.8	14.2	4.0
30°-40°	392.5	17.3	4.9
40°-50°	412.4	18.1	5.2
50°-60°	377.0	16.6	4.7
60°-70°	288.1	12.7	3.6
70°-80°	160.8	7.1	2.0
80°-90°	33.5	1.5	0.4
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°	608.4	26.8	7.6
0°-40°	1000.9	44.0	12.5
0°-60°	1790.3	78.8	22.4
0°-90°	2272.7	100.0	28.4
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°	2272.7	100.0	28.4

CANDELA DISTRIBUTION:

	0°	Flux
0°	779	
5°	776	74
15°	750	212
25°	700	323
35°	627	393
45°	535	412
55°	422	377
65°	292	288
75°	152	161
85°	24	33
90°	0	1
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°	779.0
2.5°	777.9
5°	775.6
7.5°	771.7
10°	766.3
12.5°	759.0
15°	750.4
17.5°	740.0
20°	728.3
22.5°	715.0
25°	700.0
27.5°	684.7
30°	666.2
32.5°	647.5
35°	627.3
37.5°	606.0
40°	583.9
42.5°	559.9
45°	534.9
47.5°	508.4
50°	480.7
52.5°	452.2
55°	422.3
57.5°	391.1
60°	359.1
62.5°	325.7
65°	291.5
67.5°	256.9
70°	221.9
72.5°	187.3
75°	152.1
77.5°	117.5
80°	84.5
82.5°	52.3
85°	23.6
87.5°	5.1
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)