

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: H32029

Luminaire Tested: **M200-120P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H32029
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 LENS
Light Source: LU50/D/MED 50 WATTS 3800 LUMENS
ED-17 DIFFUSED HPS
Ballast/Driver: -

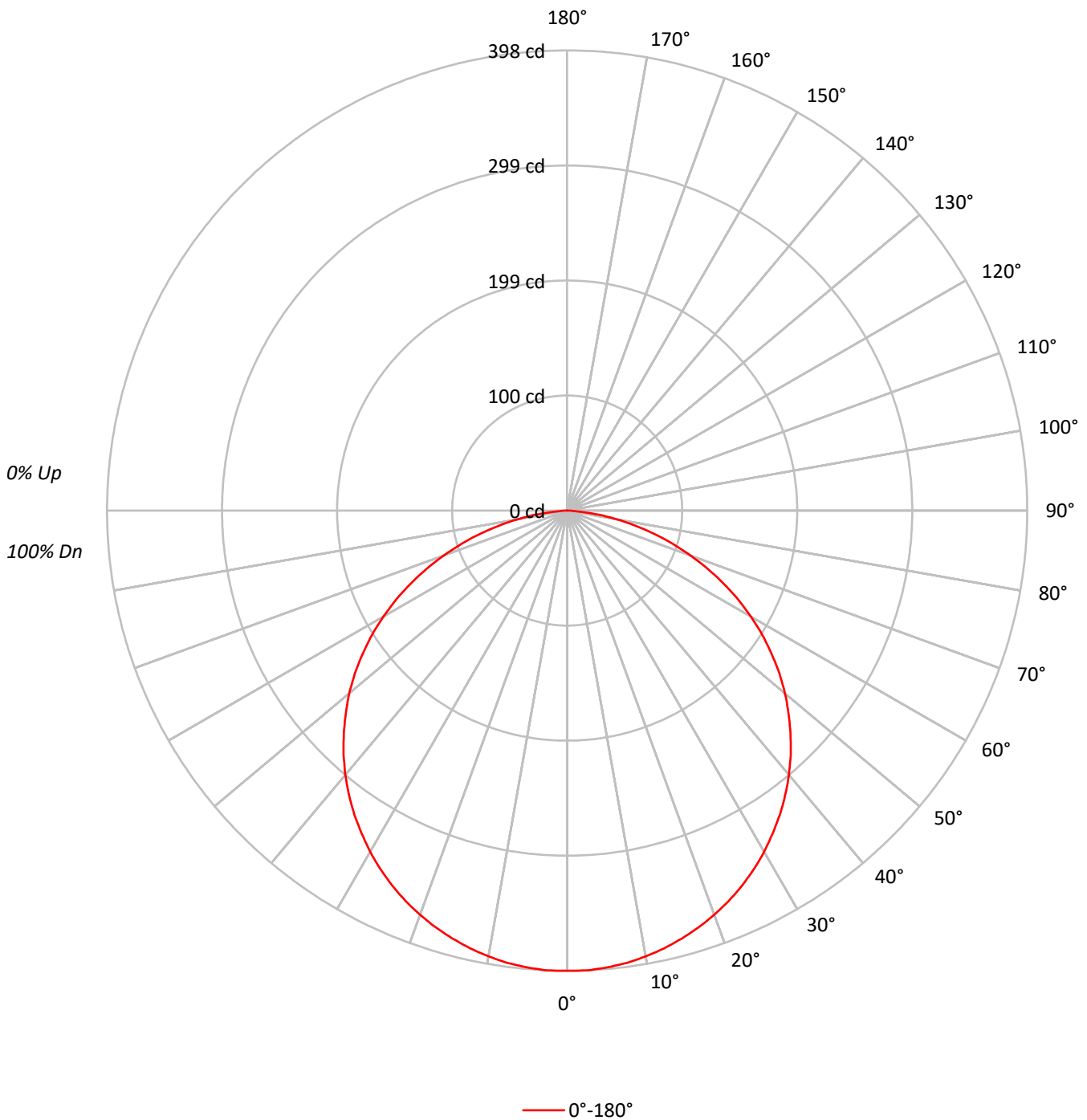
Summary

Lumens per Lamp: 3800 (1 lamp)
Luminaire Lumens: 1162.6 lumens
Efficiency: 30.6%
Efficacy: 19.4 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): 60
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

TEST NUMBER: H32029
CATALOG NUMBER: M200-120P

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	50	30	10	0	
RCR																						
0	36	36	36	36	36	36	36	36	34	34	34	33	33	33	31	31	31	31	31	31	31	
1	33	32	30	29	32	31	30	29	30	29	28	29	28	27	28	27	26	28	27	26	26	
2	30	28	26	24	29	27	25	24	26	24	23	25	24	22	24	23	22	24	23	22	21	
3	28	24	22	20	27	24	21	20	23	21	19	22	20	19	21	20	19	21	20	19	18	
4	25	21	19	17	24	21	18	17	20	18	16	20	18	16	19	17	16	19	17	16	15	
5	23	19	16	14	22	19	16	14	18	16	14	18	15	14	17	15	14	17	15	14	13	
6	21	17	14	12	21	17	14	12	16	14	12	16	14	12	15	13	12	15	13	12	11	
7	20	16	13	11	19	15	13	11	15	13	11	14	12	11	14	12	11	14	12	11	10	
8	18	14	12	10	18	14	11	10	14	11	10	13	11	10	13	11	10	13	11	10	9	
9	17	13	10	9	17	13	10	9	12	10	9	12	10	9	12	10	9	12	10	9	8	
10	16	12	10	8	16	12	10	8	12	9	8	11	9	8	11	9	8	11	9	8	7	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6694
5°	6696
10°	6686
15°	6672
20°	6658
25°	6642
30°	6618
35°	6589
40°	6551
45°	6498
50°	6437
55°	6328
60°	6172
65°	5938
70°	5586
75°	5069
80°	4213
85°	2335



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	37.7	3.2	1.0
10°-20°	108.2	9.3	2.8
20°-30°	165.0	14.2	4.3
30°-40°	200.7	17.3	5.3
40°-50°	210.7	18.1	5.5
50°-60°	192.8	16.6	5.1
60°-70°	147.5	12.7	3.9
70°-80°	82.4	7.1	2.2
80°-90°	17.5	1.5	0.5
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°	310.9	26.7	8.2
0°-40°	511.6	44.0	13.5
0°-60°	915.2	78.7	24.1
0°-90°	1162.6	100.0	30.6
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°	1162.6	100.0	30.6

CANDELA DISTRIBUTION:

0°	Flux
0°	398
5°	397
15°	383
25°	358
35°	321
45°	273
55°	216
65°	149
75°	78
85°	12
90°	0
95°	0
105°	0
115°	0
125°	0
135°	0
145°	0
155°	0
165°	0
175°	0
180°	0



TEST NUMBER: H32029
CATALOG NUMBER: M200-120P

CANDELA DISTRIBUTION (FULL):

0°	
0°	398.0
2.5°	398.1
5°	396.6
7.5°	394.6
10°	391.5
12.5°	387.8
15°	383.2
17.5°	378.0
20°	372.0
22.5°	365.4
25°	357.9
27.5°	349.7
30°	340.8
32.5°	330.9
35°	320.9
37.5°	309.9
40°	298.4
42.5°	286.2
45°	273.2
47.5°	259.7
50°	246.0
52.5°	231.4
55°	215.8
57.5°	200.2
60°	183.5
62.5°	166.7
65°	149.2
67.5°	131.6
70°	113.6
72.5°	95.7
75°	78.0
77.5°	60.4
80°	43.5
82.5°	27.9
85°	12.1
87.5°	2.7
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)