

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: H32022

Luminaire Tested: **M200-120P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H32022
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: LU100/D/MED 100 WATTS 8800 LUMENS
ED-17 DIFFUSED HPS
Ballast/Driver: -

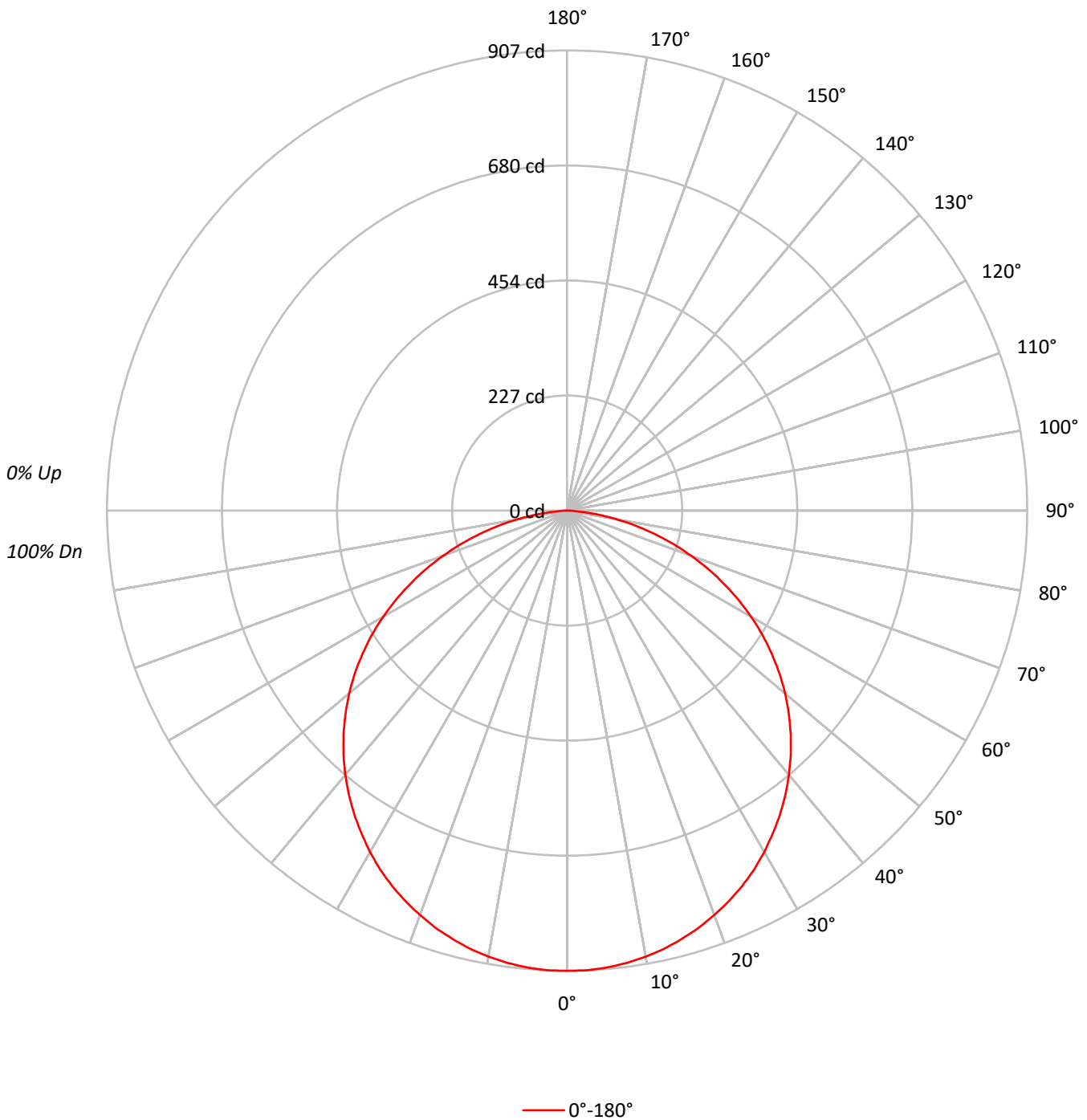
Summary

Lumens per Lamp: 8800 (1 lamp)
Luminaire Lumens: 2651.5 lumens
Efficiency: 30.1%
Efficacy: 23.1 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	36	36	36	36	35	35	35	35	33	33	33	32	32	32	31	31	31	30
1	33	31	30	29	32	31	29	28	29	28	28	28	27	27	27	26	26	25
2	30	27	25	23	29	27	25	23	26	24	23	25	23	22	24	23	22	21
3	27	24	21	19	26	23	21	19	22	21	19	22	20	19	21	19	18	18
4	25	21	18	16	24	21	18	16	20	18	16	19	17	16	19	17	16	15
5	23	19	16	14	22	18	16	14	18	16	14	17	15	14	17	15	14	13
6	21	17	14	12	20	17	14	12	16	14	12	16	14	12	15	13	12	11
7	19	15	13	11	19	15	13	11	15	12	11	14	12	11	14	12	11	10
8	18	14	11	10	18	14	11	10	13	11	10	13	11	9	13	11	9	9
9	17	13	10	9	16	13	10	9	12	10	9	12	10	9	12	10	8	8
10	16	12	9	8	15	12	9	8	11	9	8	11	9	8	11	9	8	7

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	15258
5°	15262
10°	15247
15°	15216
20°	15181
25°	15148
30°	15090
35°	15017
40°	14929
45°	14821
50°	14671
55°	14432
60°	14081
65°	13535
70°	12756
75°	11606
80°	9627
85°	5307



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	85.9	3.2	1.0
10°-20°	246.8	9.3	2.8
20°-30°	376.3	14.2	4.3
30°-40°	457.5	17.3	5.2
40°-50°	480.5	18.1	5.5
50°-60°	439.8	16.6	5.0
60°-70°	336.6	12.7	3.8
70°-80°	188.6	7.1	2.1
80°-90°	39.7	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°	709.0	26.7	8.1
0°-40°	1166.5	44.0	13.3
0°-60°	2086.7	78.7	23.7
0°-90°	2651.5	100.0	30.1
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°	2651.5	100.0	30.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	907	
5°	904	86
15°	874	247
25°	816	376
35°	731	457
45°	623	480
55°	492	440
65°	340	337
75°	179	189
85°	28	39
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°	907.2
2.5°	906.9
5°	904.0
7.5°	899.3
10°	892.8
12.5°	884.6
15°	873.9
17.5°	862.2
20°	848.2
22.5°	833.1
25°	816.3
27.5°	798.0
30°	777.0
32.5°	754.3
35°	731.4
37.5°	706.3
40°	680.0
42.5°	652.3
45°	623.1
47.5°	592.5
50°	560.7
52.5°	527.7
55°	492.2
57.5°	456.6
60°	418.6
62.5°	380.4
65°	340.1
67.5°	300.8
70°	259.4
72.5°	219.4
75°	178.6
77.5°	138.0
80°	99.4
82.5°	62.6
85°	27.5
87.5°	6.2
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)