

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: H32024

Luminaire Tested: **M200-126P**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-46-04  
Report Number: H32024  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: M200-126P  
Description: HALO 13" SQ. RECESSED HID  
SPECULAR REFLECTOR STEP DROP LENS  
Light Source: LU100/D/MED 100 WATTS 8800 LUMENS  
ED-17 DIFFUSED HPS  
Ballast/Driver: -

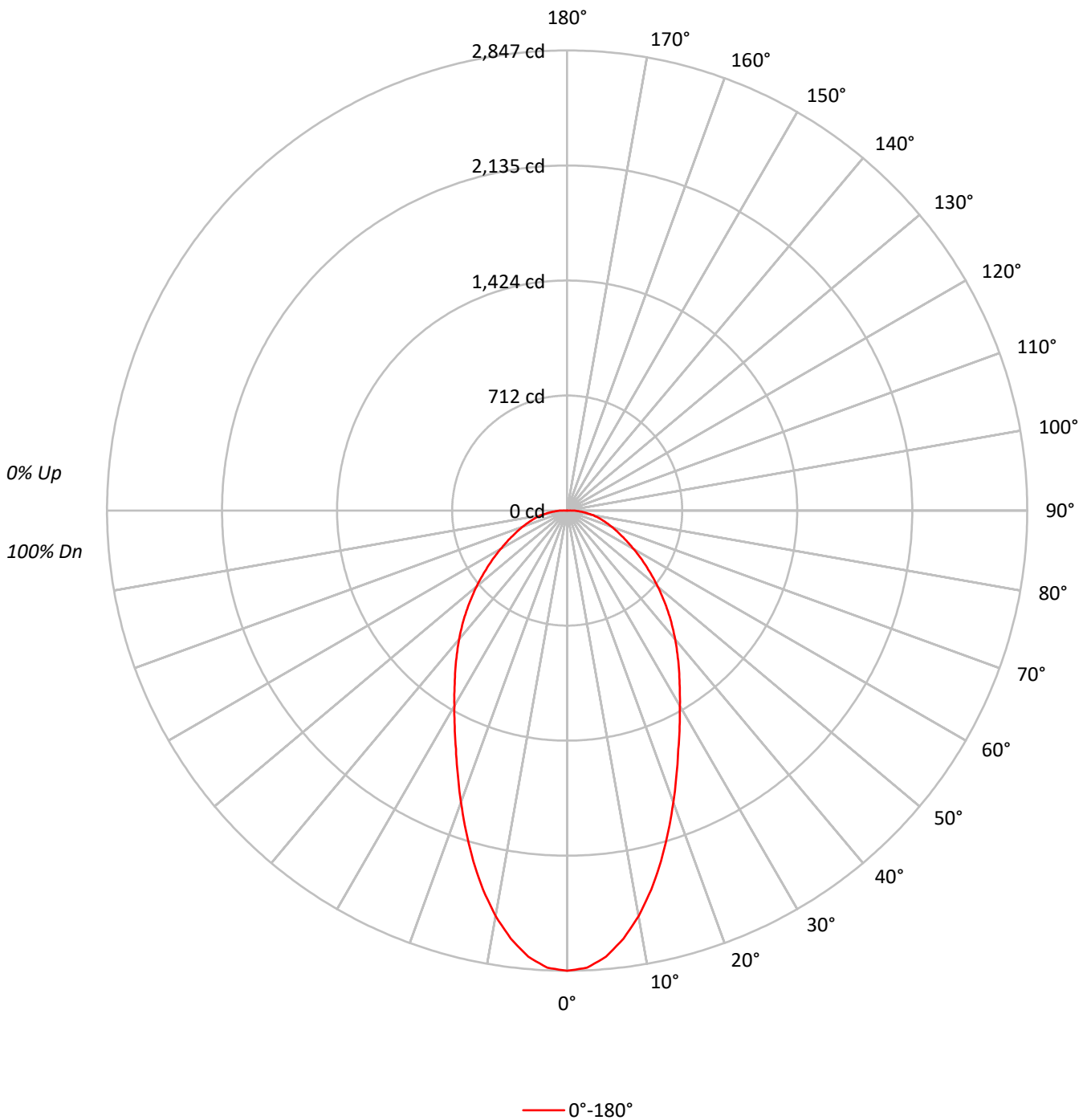
**Summary**

Lumens per Lamp: 8800 (1 lamp)  
Luminaire Lumens: 4330.8 lumens  
Efficiency: 49.2%  
Efficacy: 37.7 lumens/watt  
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.95  
Luminous Opening: Rectangular w/ Sides (W: 0.8' x L: 0.8' x H: 0.03')  
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	59	59	59	59	57	57	57	57	55	55	55	52	52	52	50	50	50	49
1	54	52	50	48	53	51	49	47	48	47	46	47	45	44	45	44	43	42
2	50	46	43	40	48	45	42	40	43	41	39	42	40	38	40	38	37	36
3	46	41	37	34	44	40	37	34	39	36	33	37	35	33	36	34	32	31
4	42	37	33	30	41	36	33	30	35	32	29	34	31	29	33	30	28	27
5	39	33	29	26	38	33	29	26	32	28	26	31	28	26	30	27	25	24
6	37	30	26	24	36	30	26	23	29	26	23	28	25	23	28	25	23	22
7	34	28	24	21	33	28	24	21	27	23	21	26	23	21	26	23	21	20
8	32	26	22	19	31	26	22	19	25	22	19	24	21	19	24	21	19	18
9	30	24	20	18	29	24	20	18	23	20	18	23	20	17	22	19	17	17
10	28	22	19	16	28	22	19	16	22	18	16	21	18	16	21	18	16	15

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	47883
5°	46613
10°	43212
15°	38684
20°	33901
25°	29692
30°	26517
35°	24128
40°	22137
45°	20220
50°	18334
55°	16532
60°	14972
65°	13813
70°	13062
75°	12712
80°	12779
85°	12562



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	257.2	5.9	2.9
10°-20°	625.8	14.4	7.1
20°-30°	751.9	17.4	8.5
30°-40°	755.9	17.5	8.6
40°-50°	681.0	15.7	7.7
50°-60°	533.8	12.3	6.1
60°-70°	374.4	8.6	4.3
70°-80°	237.4	5.5	2.7
80°-90°	103.6	2.4	1.2
90°-100°	9.7	0.2	0.1
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°	1634.9	37.8	18.6
0°-40°	2390.8	55.2	27.2
0°-60°	3605.6	83.3	41.0
0°-90°	4321.0	99.8	49.1
90°-120°	9.7	0.2	0.1
90°-150°	9.7	0.2	0.1
90°-180°	10.0	0.2	0.1
0°-180°	4330.8	100.0	49.2

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2847	
5°	2770	257
15°	2244	626
25°	1628	752
35°	1206	756
45°	882	681
55°	594	534
65°	375	374
75°	223	237
85°	93	90
90°	37	21
95°	2	3
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°	2847
2.5°	2831
5°	2770
7.5°	2671
10°	2547
12.5°	2402
15°	2244
17.5°	2080
20°	1920
22.5°	1768
25°	1628
27.5°	1506
30°	1395
32.5°	1296
35°	1206
37.5°	1121
40°	1040
42.5°	960
45°	882
47.5°	806
50°	732
52.5°	661
55°	594
57.5°	532
60°	474
62.5°	422
65°	375
67.5°	333
70°	293
72.5°	257
75°	223
77.5°	193
80°	160
82.5°	125
85°	93
87.5°	64
90°	37
92.5°	15
95°	2
97.5°	0
100°	0
102.5°	0
105°	0
107.5°	0
110°	0



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**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)