

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: H32017

Luminaire Tested: **M200-126P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H32017
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: M100/C/U/MED 100 WATTS 8000 LUMENS
ED-17 COATED METAL HALIDE
Ballast/Driver: -

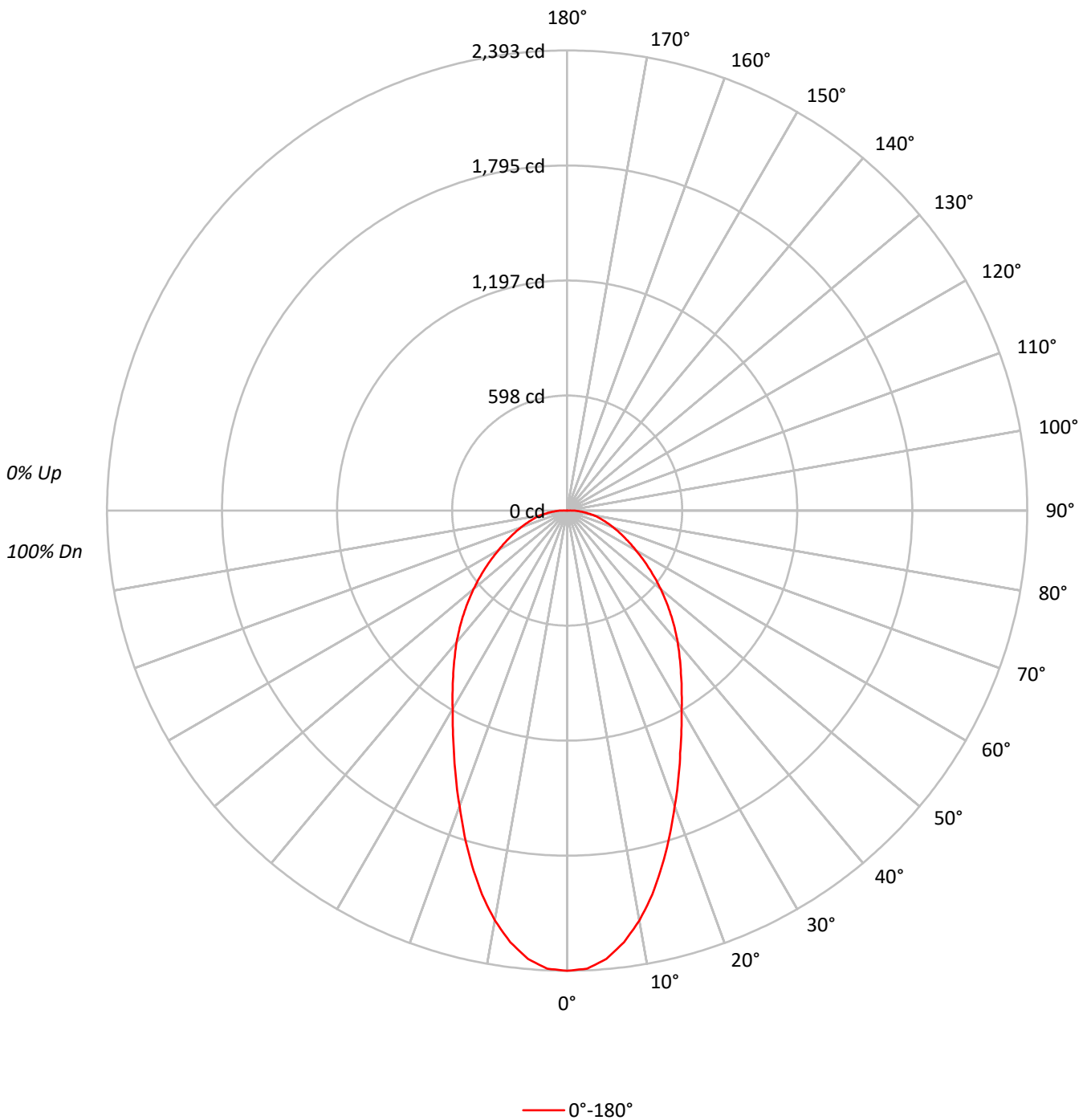
Summary

Lumens per Lamp: 8000 (1 lamp)
Luminaire Lumens: 3721.6 lumens
Efficiency: 46.5%
Efficacy: 32.4 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.96
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	55	55	55	55	54	54	54	54	52	52	52	49	49	49	47	47	47	46
1	51	49	47	45	50	48	46	45	46	44	43	44	43	42	42	41	41	40
2	47	43	40	38	46	42	40	37	41	39	37	39	37	36	38	36	35	34
3	43	39	35	32	42	38	35	32	37	34	31	35	33	31	34	32	30	29
4	40	35	31	28	39	34	31	28	33	30	28	32	29	27	31	29	27	26
5	37	31	28	25	36	31	27	25	30	27	24	29	26	24	28	26	24	23
6	34	29	25	22	34	28	25	22	27	24	22	27	24	22	26	23	21	21
7	32	26	23	20	31	26	22	20	25	22	20	25	22	20	24	21	19	19
8	30	24	21	18	29	24	21	18	23	20	18	23	20	18	22	20	18	17
9	28	23	19	17	28	22	19	17	22	19	16	21	18	16	21	18	16	15
10	27	21	18	15	26	21	17	15	20	17	15	20	17	15	20	17	15	14

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	40247
5°	39377
10°	36714
15°	32926
20°	28869
25°	25370
30°	22640
35°	20647
40°	19029
45°	17446
50°	15904
55°	14389
60°	13045
65°	12045
70°	11368
75°	10945
80°	11102
85°	10806



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	217.7	5.8	2.7
10°-20°	532.8	14.3	6.7
20°-30°	642.1	17.3	8.0
30°-40°	647.1	17.4	8.1
40°-50°	587.7	15.8	7.3
50°-60°	464.4	12.5	5.8
60°-70°	326.3	8.8	4.1
70°-80°	205.8	5.5	2.6
80°-90°	89.5	2.4	1.1
90°-100°	8.2	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°	1392.6	37.4	17.4
0°-40°	2039.7	54.8	25.5
0°-60°	3091.7	83.1	38.6
0°-90°	3713.4	99.8	46.4
90°-120°	8.2	0.2	0.1
90°-150°	8.2	0.2	0.1
90°-180°	8.0	0.2	0.1
0°-180°	3721.6	100.0	46.5

CANDELA DISTRIBUTION:

	0°	Flux
0°	2393	
5°	2340	218
15°	1910	533
25°	1391	642
35°	1032	647
45°	761	588
55°	517	464
65°	327	326
75°	192	206
85°	80	78
90°	32	18
95°	1	2
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°	2393
2.5°	2384
5°	2340
7.5°	2264
10°	2164
12.5°	2045
15°	1910
17.5°	1773
20°	1635
22.5°	1511
25°	1391
27.5°	1286
30°	1191
32.5°	1108
35°	1032
37.5°	961
40°	894
42.5°	827
45°	761
47.5°	697
50°	635
52.5°	575
55°	517
57.5°	463
60°	413
62.5°	368
65°	327
67.5°	290
70°	255
72.5°	224
75°	192
77.5°	167
80°	139
82.5°	108
85°	80
87.5°	55
90°	32
92.5°	13
95°	1
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)