

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: H32031

Luminaire Tested: **M200-126P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H32031
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: LU50/D/MED 50 WATTS 3800 LUMENS
ED-17 DIFFUSED HPS
Ballast/Driver: -

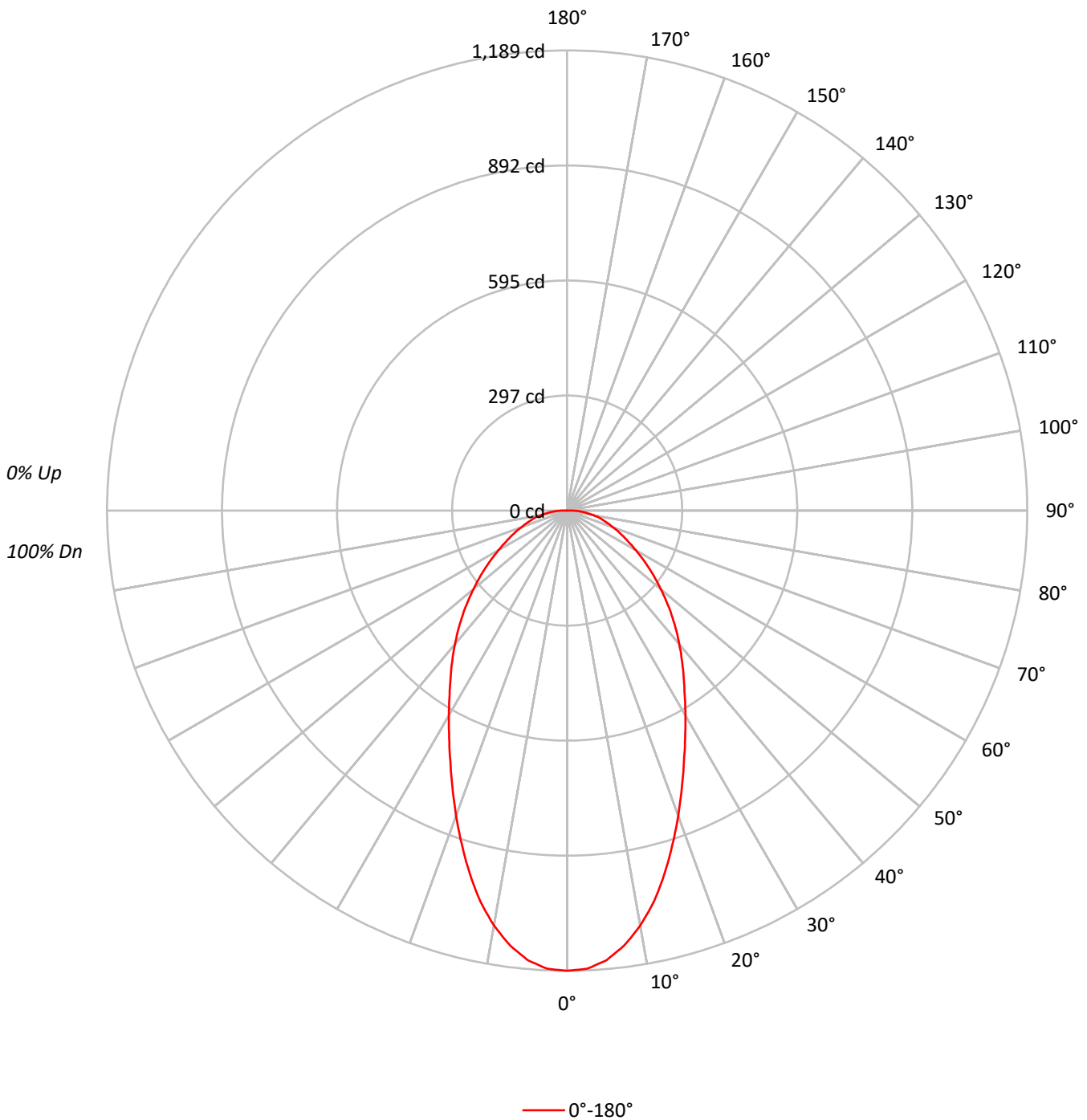
Summary

Lumens per Lamp: 3800 (1 lamp)
Luminaire Lumens: 1877.5 lumens
Efficiency: 49.4%
Efficacy: 31.3 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.8' x L: 0.8' x H: 0.03')
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: H32031
CATALOG NUMBER: M200-126P

Luminous Intensity Polar Plot





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 CATALOG NUMBER: M200-126P

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	49	47	46	47	46	44	45	44	43	42
2	50	46	43	40	48	45	42	40	43	41	39	42	40	38	40	39	37	36
3	46	41	37	34	45	40	37	34	39	36	34	38	35	33	36	34	32	31
4	42	37	33	30	41	36	33	30	35	32	29	34	31	29	33	31	29	28
5	39	34	29	26	38	33	29	26	32	29	26	31	28	26	30	28	25	24
6	37	31	27	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	24	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	30	24	20	18	23	20	18	23	20	17	22	19	17	17
10	29	22	19	16	28	22	19	16	22	18	16	21	18	16	21	18	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19997
5°	19621
10°	18476
15°	16756
20°	14814
25°	13022
30°	11614
35°	10503
40°	9600
45°	8758
50°	7914
55°	7153
60°	6475
65°	5967
70°	5617
75°	5529
80°	5511
85°	5403



TEST NUMBER: H32031
 CATALOG NUMBER: M200-126P

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	108.8	5.8	2.9
10°-20°	271.0	14.4	7.1
20°-30°	329.4	17.5	8.7
30°-40°	329.1	17.5	8.7
40°-50°	294.7	15.7	7.8
50°-60°	230.8	12.3	6.1
60°-70°	161.7	8.6	4.3
70°-80°	102.8	5.5	2.7
80°-90°	44.8	2.4	1.2
90°-100°	4.4	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°	709.2	37.8	18.7
0°-40°	1038.3	55.3	27.3
0°-60°	1563.9	83.3	41.2
0°-90°	1873.1	99.8	49.3
90°-120°	4.4	0.2	0.1
90°-150°	4.4	0.2	0.1
90°-180°	4.0	0.2	0.1
0°-180°	1877.5	100.0	49.4

CANDELA DISTRIBUTION:

	0°	Flux
0°	1189	
5°	1166	109
15°	972	271
25°	714	329
35°	525	329
45°	382	295
55°	257	231
65°	162	162
75°	97	103
85°	40	39
90°	16	9
95°	1	1
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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CATALOG NUMBER: M200-126P

CANDELA DISTRIBUTION (FULL):

0°	
0°	1189
2.5°	1185
5°	1166
7.5°	1133
10°	1089
12.5°	1035
15°	972
17.5°	905
20°	839
22.5°	774
25°	714
27.5°	660
30°	611
32.5°	565
35°	525
37.5°	487
40°	451
42.5°	416
45°	382
47.5°	348
50°	316
52.5°	286
55°	257
57.5°	230
60°	205
62.5°	182
65°	162
67.5°	144
70°	126
72.5°	111
75°	97
77.5°	84
80°	69
82.5°	54
85°	40
87.5°	28
90°	16
92.5°	7
95°	1
97.5°	0
100°	0
102.5°	0
105°	0
107.5°	0
110°	0



TEST NUMBER: H32031
CATALOG NUMBER: M200-126P

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)