

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: H32028

Luminaire Tested: **M200-26P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H32028
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: M200-26P
Description: HALO 13" SQ. RECESSED HID
SPECULAR REFLECTOR REGRESSED DROP OPAL LENS
Light Source: LU50/D/MED 50 WATTS 3800 LUMENS
ED-17 DIFFUSED HPS
Ballast/Driver: -

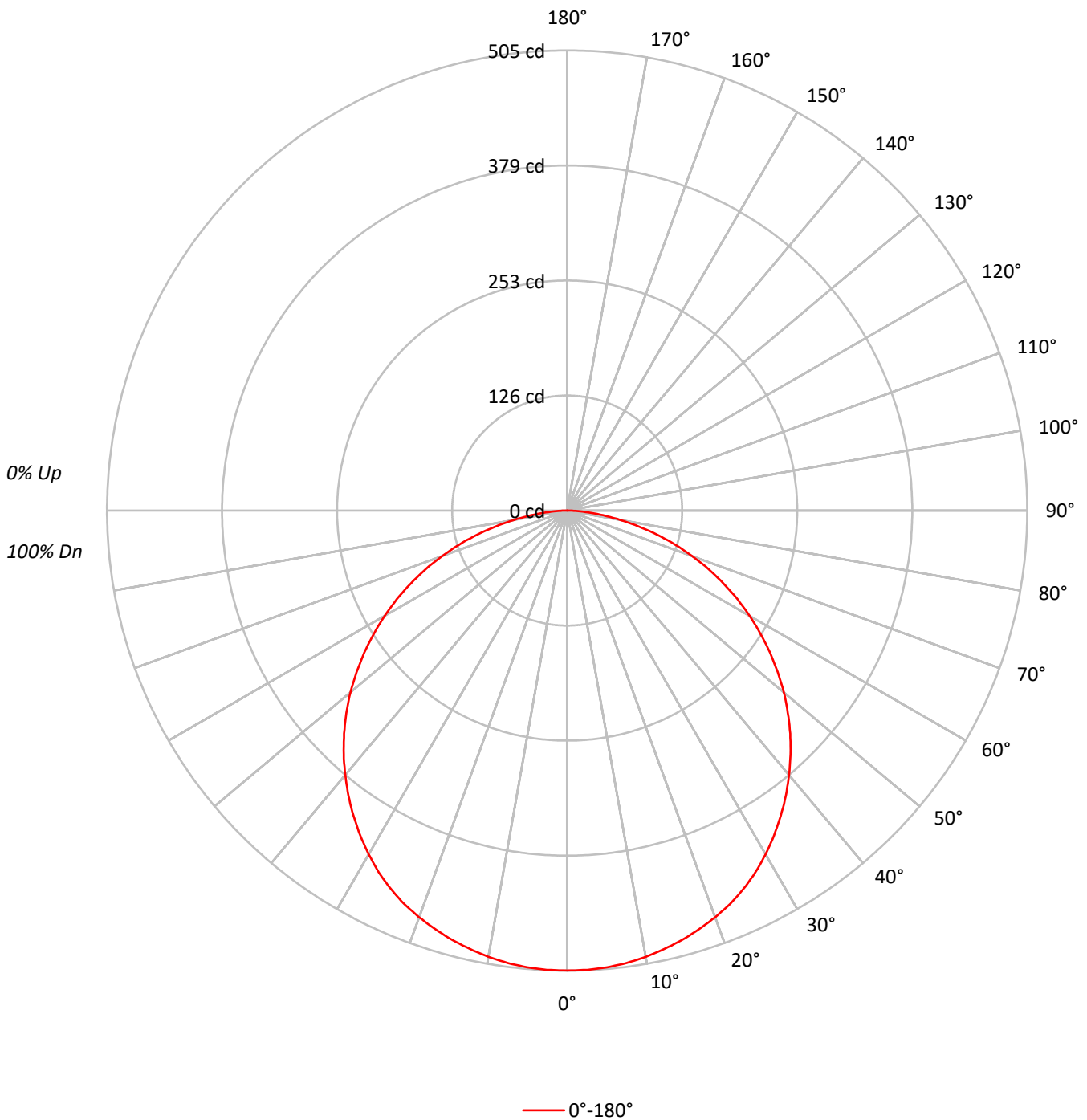
Summary

Lumens per Lamp: 3800 (1 lamp)
Luminaire Lumens: 1485.0 lumens
Efficiency: 39.1%
Efficacy: 24.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.39
Luminous Opening: Rectangular (W 0.78' x L: 0.78' 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

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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	47	47	47	47	45	45	45	45	43	43	43	42	42	42	40	40	40	39
1	42	41	39	37	41	40	38	37	38	37	36	36	35	34	35	34	33	33
2	39	35	33	30	37	35	32	30	33	31	29	32	30	29	31	29	28	27
3	35	31	28	25	34	30	27	25	29	27	24	28	26	24	27	25	24	23
4	32	27	24	21	31	27	24	21	26	23	21	25	22	20	24	22	20	19
5	29	24	21	18	29	24	21	18	23	20	18	22	20	18	22	19	17	17
6	27	22	18	16	26	22	18	16	21	18	16	20	18	15	20	17	15	15
7	25	20	16	14	25	20	16	14	19	16	14	18	16	14	18	15	14	13
8	23	18	15	12	23	18	15	12	17	14	12	17	14	12	16	14	12	11
9	22	17	13	11	21	16	13	11	16	13	11	15	13	11	15	13	11	10
10	21	15	12	10	20	15	12	10	15	12	10	14	12	10	14	12	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	8931
5°	8937
10°	8932
15°	8935
20°	8941
25°	8943
30°	8899
35°	8829
40°	8751
45°	8662
50°	8546
55°	8378
60°	8181
65°	7929
70°	7558
75°	6993
80°	6052
85°	4709



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	47.8	3.2	1.3
10°-20°	137.8	9.3	3.6
20°-30°	211.0	14.2	5.6
30°-40°	255.8	17.2	6.7
40°-50°	266.9	18.0	7.0
50°-60°	242.7	16.3	6.4
60°-70°	187.3	12.6	4.9
70°-80°	108.0	7.3	2.8
80°-90°	27.7	1.9	0.7
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°	396.6	26.7	10.4
0°-40°	652.4	43.9	17.2
0°-60°	1162.0	78.3	30.6
0°-90°	1485.0	100.0	39.1
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°	1485.0	100.0	39.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	505	
5°	503	48
15°	488	138
25°	458	211
35°	409	256
45°	346	267
55°	272	243
65°	189	187
75°	102	108
85°	23	26
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°	504.8
2.5°	504.5
5°	503.2
7.5°	500.8
10°	497.2
12.5°	492.8
15°	487.8
17.5°	481.7
20°	474.9
22.5°	467.3
25°	458.1
27.5°	447.6
30°	435.6
32.5°	422.6
35°	408.8
37.5°	394.3
40°	378.9
42.5°	363.0
45°	346.2
47.5°	328.5
50°	310.5
52.5°	291.1
55°	271.6
57.5°	251.7
60°	231.2
62.5°	210.8
65°	189.4
67.5°	168.0
70°	146.1
72.5°	124.4
75°	102.3
77.5°	80.3
80°	59.4
82.5°	39.9
85°	23.2
87.5°	8.9
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)