

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: P10161

Luminaire Tested: **LZR510100EMB17**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: P10161
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: LZR510100EMB17
Description: HALO LAZER 4.5" HID TRACK FIXTURE
WITH SPECULAR CLEAR REFLECTOR,
DIFFUSE LENS (SMOOTH SIDE UP)
Light Source: MEDIUM (E26) BASE, ED-17 CLEAR METAL HALIDE
MH100W/U 100 WATTS
Ballast/Driver: M90/E

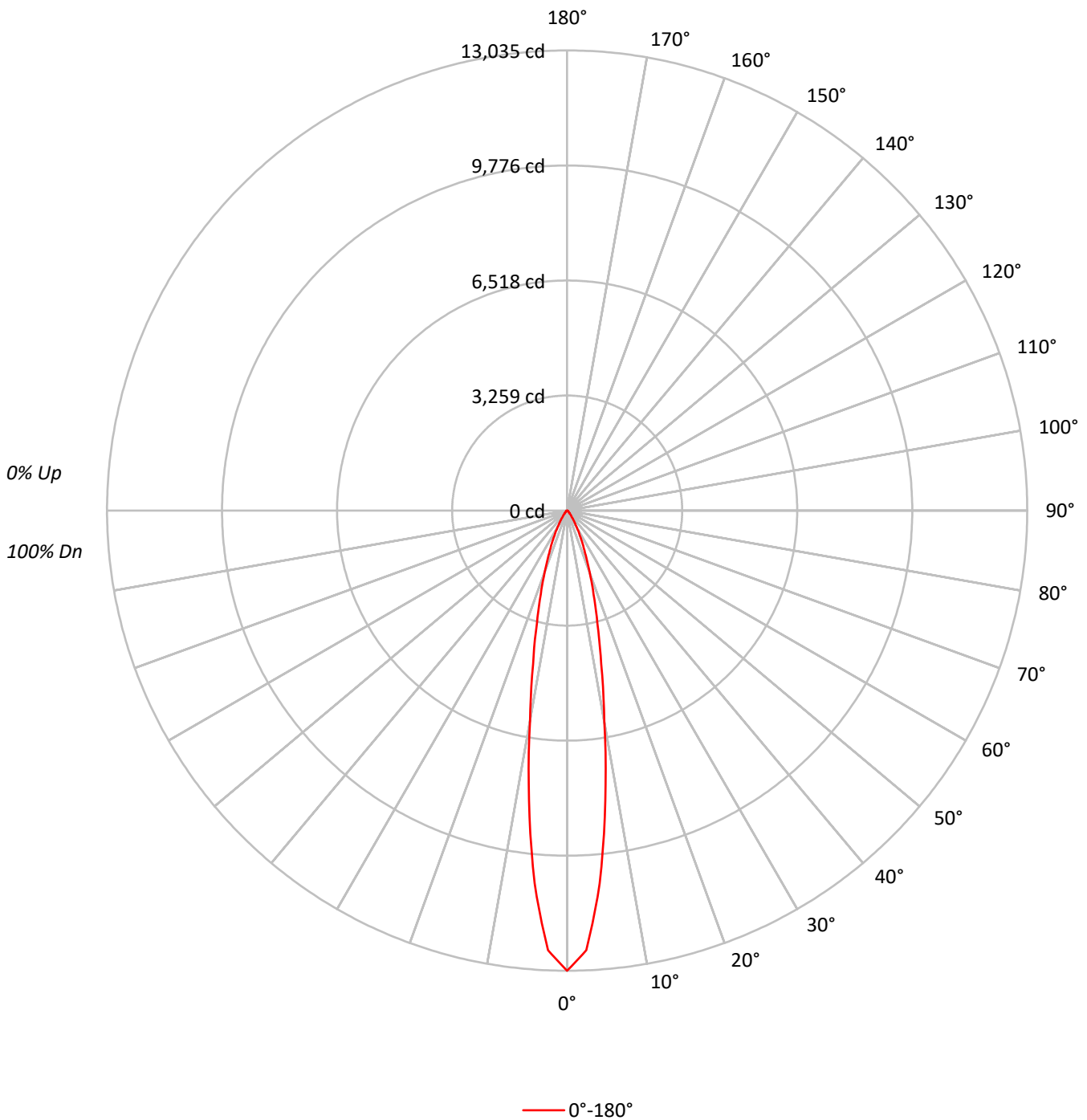
Summary

Lumens per Lamp: 8500 (1 lamp)
Luminaire Lumens: 2597.7 lumens
Efficiency: 30.6%
Efficacy: 26.0 lumens/watt
Spacing Criteria (0/90/45): 0.32 / 0.32 / 0.36
Luminous Opening: Circular (Dia: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 100
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	36	36	36	36	34	34	34	33	33	33	31	31	31	31
1	35	34	34	33	34	34	33	33	32	32	32	31	31	31	30	30	30	29
2	34	32	31	31	33	32	31	30	31	30	30	30	29	29	29	29	28	28
3	32	31	30	29	32	30	29	28	30	29	28	29	28	28	28	28	27	27
4	31	29	28	27	31	29	28	27	29	27	27	28	27	26	27	27	26	26
5	30	28	27	26	30	28	27	26	27	26	26	27	26	25	27	26	25	25
6	29	27	26	25	29	27	26	25	27	25	24	26	25	24	26	25	24	24
7	28	26	25	24	28	26	25	24	26	24	24	25	24	23	25	24	23	23
8	27	25	24	23	27	25	24	23	25	24	23	25	23	23	24	23	23	22
9	27	24	23	22	26	24	23	22	24	23	22	24	23	22	24	23	22	22
10	26	24	22	21	26	24	22	21	23	22	21	23	22	21	23	22	21	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1270366
5°	1036806
10°	598915
15°	332957
20°	192283
25°	109684
30°	59418
35°	31171
40°	16921
45°	10337
50°	6974
55°	5437
60°	4873
65°	4843
70°	4844
75°	4895
80°	4490
85°	3355



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	863.5	33.2	10.2
10°-20°	946.2	36.4	11.1
20°-30°	483.1	18.6	5.7
30°-40°	175.6	6.8	2.1
40°-50°	61.5	2.4	0.7
50°-60°	29.5	1.1	0.3
60°-70°	20.8	0.8	0.2
70°-80°	13.6	0.5	0.2
80°-90°	3.8	0.1	0.0
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°	2292.8	88.3	27.0
0°-40°	2468.5	95.0	29.0
0°-60°	2559.5	98.5	30.1
0°-90°	2597.7	100.0	30.6
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°	2597.7	100.0	30.6

CANDELA DISTRIBUTION:

	0°	Flux
0°	13035	
5°	10598	864
15°	3300	946
25°	1020	483
35°	262	176
45°	75	62
55°	32	30
65°	21	21
75°	13	14
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	13035
2.5°	12463
5°	10598
7.5°	8280
10°	6052
12.5°	4450
15°	3300
17.5°	2483
20°	1854
22.5°	1372
25°	1020
27.5°	744
30°	528
32.5°	371
35°	262
37.5°	185
40°	133
42.5°	100
45°	75
47.5°	58
50°	46
52.5°	37
55°	32
57.5°	28
60°	25
62.5°	23
65°	21
67.5°	19
70°	17
72.5°	15
75°	13
77.5°	11
80°	8
82.5°	6
85°	3
87.5°	1
90°	0

(END OF REPORT)