

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: P10015

Luminaire Tested: **LZR510**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: P10015
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: LZR510
Description: HALO LAZER 4.5" HID TRACK FIXTURE
WITH SPECULAR CLEAR REFLECTOR, CLEAR LENS
AND SOCKET IN LOWER POSITION
Light Source: MEDIUM BASE ED17 CLEAR METAL HALIDE LAMP
MH100/ED17/U 100 WATTS
Ballast/Driver: -

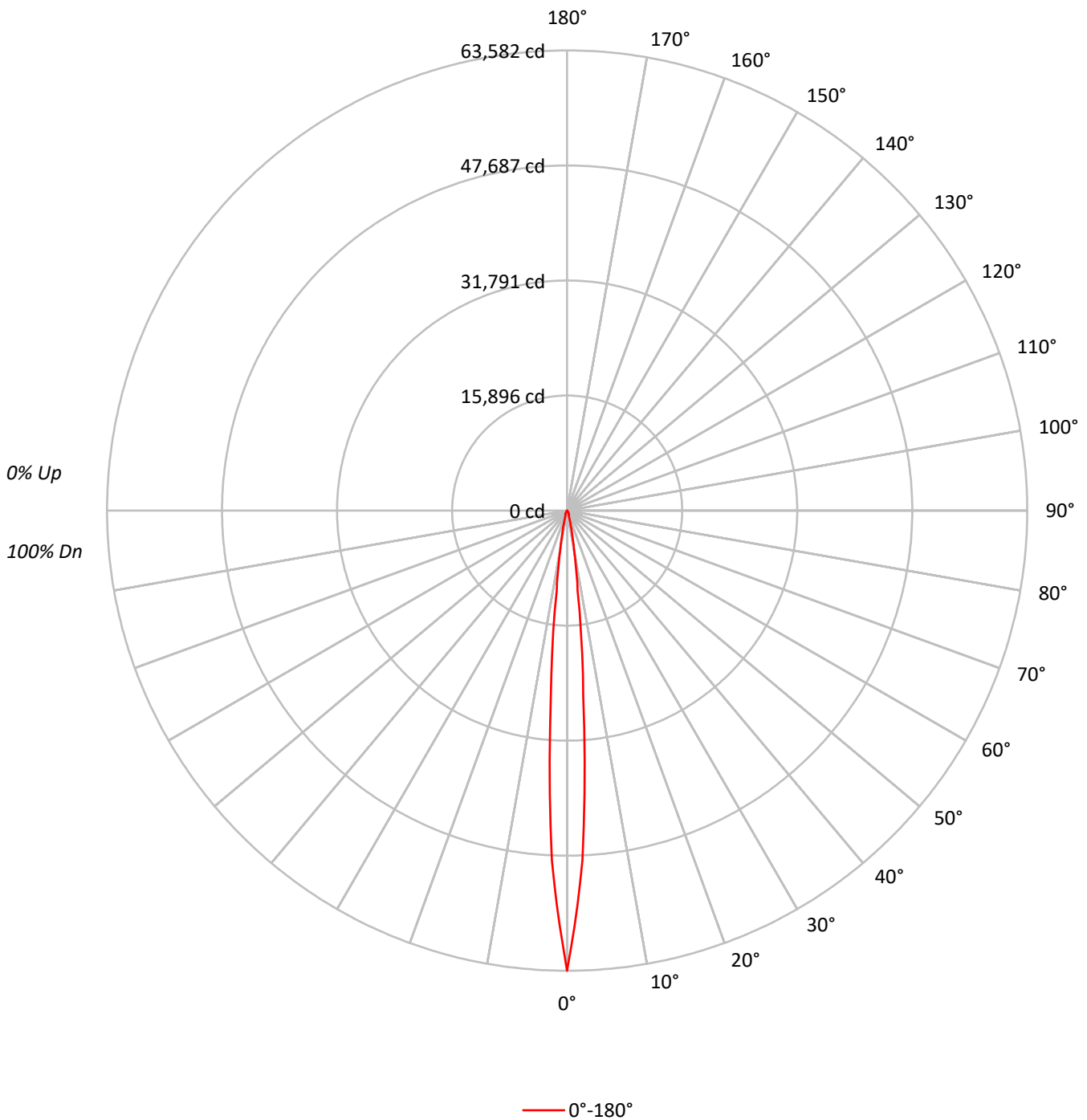
Summary

Lumens per Lamp: 8500 (1 lamp)
Luminaire Lumens: 2812.9 lumens
Efficiency: 33.1%
Efficacy: 28.1 lumens/watt
Spacing Criteria (0/90/45): 0.15 / 0.15 / 0.16
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

TEST NUMBER: P10015
CATALOG NUMBER: LZRS510

Luminous Intensity Polar Plot





TEST NUMBER: P10015
 CATALOG NUMBER: LZRS10

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	39	39	39	39	38	38	38	38	37	37	37		35	35	35		34	34	34	33
1	38	38	37	37	38	37	36	36	36	35	35		34	34	34		33	33	33	32
2	37	36	35	35	37	36	35	34	35	34	34		34	33	33		33	33	32	32
3	36	35	34	33	36	35	34	33	34	33	33		33	33	32		32	32	32	31
4	36	34	33	32	35	34	33	32	33	32	32		33	32	31		32	31	31	31
5	35	33	32	31	34	33	32	31	32	32	31		32	31	31		32	31	30	30
6	34	32	31	31	34	32	31	30	32	31	30		31	31	30		31	30	30	30
7	34	32	31	30	33	32	31	30	31	30	30		31	30	30		31	30	29	29
8	33	31	30	29	33	31	30	29	31	30	29		31	30	29		30	30	29	29
9	32	31	30	29	32	31	30	29	30	29	29		30	29	29		30	29	29	28
10	32	30	29	29	32	30	29	29	30	29	28		30	29	28		30	29	28	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6196580
5°	2509153
10°	534392
15°	146097
20°	71769
25°	62154
30°	48390
35°	12254
40°	6870
45°	4962
50°	3639
55°	2209
60°	1364
65°	1153
70°	1425
75°	1130
80°	1684
85°	0



TEST NUMBER: P10015
 CATALOG NUMBER: LZRS10

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	1891.5	67.2	22.3
10°-20°	516.1	18.3	6.1
20°-30°	264.7	9.4	3.1
30°-40°	87.3	3.1	1.0
40°-50°	29.1	1.0	0.3
50°-60°	13.4	0.5	0.2
60°-70°	6.7	0.2	0.1
70°-80°	3.2	0.1	0.0
80°-90°	0.9	0.0	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°	2672.2	95.0	31.4
0°-40°	2759.5	98.1	32.5
0°-60°	2802.1	99.6	33.0
0°-90°	2812.9	100.0	33.1
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°	2812.9	100.0	33.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	63582	
5°	25648	###
15°	1448	516
25°	578	265
35°	103	87
45°	36	29
55°	13	13
65°	5	7
75°	3	3
85°	0	1
90°	0	



TEST NUMBER: P10015
CATALOG NUMBER: LZRS10

CANDELA DISTRIBUTION (FULL):

	0°
0°	63582
2.5°	48348
5°	25648
7.5°	11129
10°	5400
12.5°	2839
15°	1448
17.5°	850
20°	692
22.5°	630
25°	578
27.5°	545
30°	430
32.5°	152
35°	103
37.5°	81
40°	54
42.5°	46
45°	36
47.5°	31
50°	24
52.5°	19
55°	13
57.5°	13
60°	7
62.5°	10
65°	5
67.5°	6
70°	5
72.5°	3
75°	3
77.5°	2
80°	3
82.5°	2
85°	0
87.5°	0
90°	0

(END OF REPORT)