

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: P10836

Luminaire Tested: **L505T639**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: P10836
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L505T639
Description: STASIS ADJUSTABLE BEAM HID TRACK FIXTURE NARROW FLOOD
Light Source: BI PIN T6 CLEAR CERAMIC METAL HALIDE LAMP
CMH35/T6/830 35 WATTS
Ballast/Driver: -

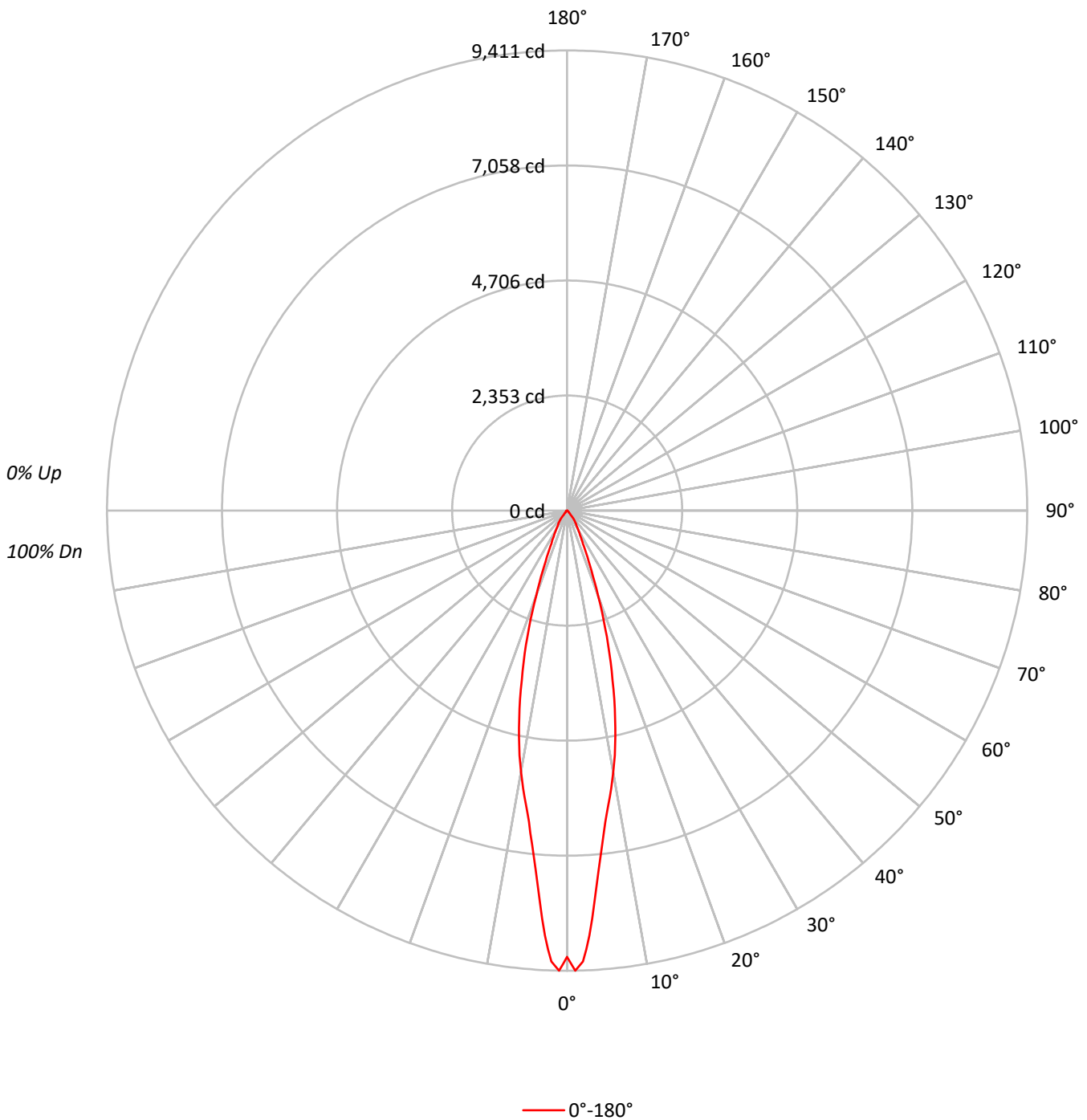
Summary

Lumens per Lamp: 3300 (1 lamp)
Luminaire Lumens: 2269.4 lumens
Efficiency: 68.8%
Efficacy: 64.8 lumens/watt
Spacing Criteria (0/90/45): 0.41 / 0.41 / 0.45
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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	82	82	82	82	80	80	80	80	76	76	76	73	73	73	70	70	70	69
1	79	77	76	75	77	76	75	73	73	72	71	71	70	69	68	68	67	66
2	76	73	71	69	74	72	70	68	70	68	67	68	67	65	66	65	64	63
3	73	70	67	65	72	69	66	64	67	65	63	65	64	62	64	63	61	60
4	71	66	64	61	69	66	63	61	64	62	60	63	61	60	62	60	59	58
5	68	64	61	58	67	63	60	58	62	59	58	61	59	57	60	58	57	56
6	66	61	58	56	65	61	58	55	60	57	55	59	57	55	58	56	54	54
7	64	59	56	53	63	58	55	53	58	55	53	57	54	53	56	54	52	52
8	62	57	54	51	61	56	53	51	56	53	51	55	53	51	54	52	51	50
9	60	55	52	49	59	54	51	49	54	51	49	53	51	49	53	51	49	48
10	58	53	50	48	57	53	50	48	52	49	48	52	49	48	51	49	47	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	720494
5°	584809
10°	434781
15°	293232
20°	155833
25°	69420
30°	40654
35°	28236
40°	11748
45°	5135
50°	3561
55°	1927
60°	1421
65°	1121
70°	1154
75°	1220
80°	1364
85°	906



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	644.1	28.4	19.5
10°-20°	970.9	42.8	29.4
20°-30°	413.2	18.2	12.5
30°-40°	175.2	7.7	5.3
40°-50°	40.6	1.8	1.2
50°-60°	14.0	0.6	0.4
60°-70°	6.2	0.3	0.2
70°-80°	4.0	0.2	0.1
80°-90°	1.2	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°	2028.3	89.4	61.5
0°-40°	2203.5	97.1	66.8
0°-60°	2258.1	99.5	68.4
0°-90°	2269.4	100.0	68.8
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°	2269.4	100.0	68.8

CANDELA DISTRIBUTION:

	0°	Flux
0°	9127	
5°	7380	644
15°	3588	971
25°	797	413
35°	293	175
45°	46	41
55°	14	14
65°	6	6
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9127
1°	9411
2°	9228
2.5°	8981
3°	8705
4°	8013
5°	7380
6°	6862
7°	6416
7.5°	6238
8°	6070
9°	5751
10°	5424
11°	5104
12°	4733
12.5°	4550
13°	4362
14°	3976
15°	3588
16°	3229
17°	2875
17.5°	2699
18°	2517
19°	2187
20°	1855
21°	1577
22°	1320
22.5°	1209
25°	797
27.5°	588
30°	446
32.5°	345
35°	293
37.5°	221
40°	114
42.5°	58
45°	46
47.5°	38
50°	29
52.5°	20
55°	14
57.5°	10
60°	9
62.5°	7
65°	6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	5
70°	5
72.5°	4
75°	4
77.5°	3
80°	3
82.5°	2
85°	1
87.5°	0
90°	0

(END OF REPORT)