

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: P10838

Luminaire Tested: **L505T670**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-46-04  
Report Number: P10838  
Test Lab: PEACHTREE CITY  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L505T670  
Description: STASIS ADJUSTABLE BEAM HID TRACK FIXTURE  
WITH CLEAR GLASS LENS AND IN NARROW FLOOD POSITION (LCL AT 1.89 INCH FROM  
REFLECTOR'S EDGE)  
Light Source: BI PIN T6 CLEAR CERAMIC METAL HALIDE LAMP  
CMH70/T6/830 70 WATTS  
Ballast/Driver: -

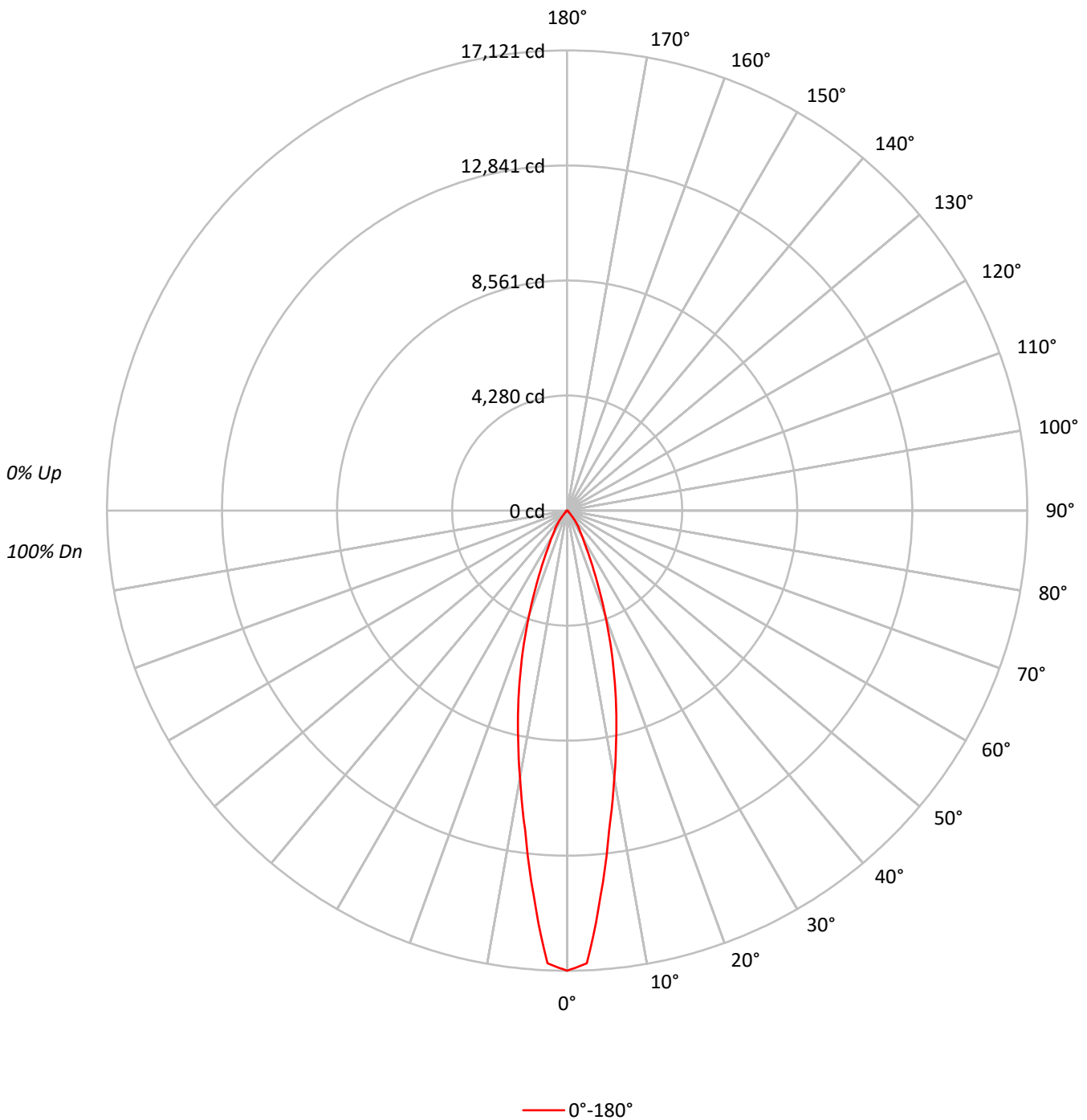
**Summary**

Lumens per Lamp: 6600 (1 lamp)  
Luminaire Lumens: 4723.3 lumens  
Efficiency: 71.6%  
Efficacy: 67.5 lumens/watt  
Spacing Criteria (0/90/45): 0.41 / 0.41 / 0.47  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 70  
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									
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	50	30	10	50	30	10	0										
RCR																																		
0	85	85	85	85	83	83	83	83	80	80	80	76	76	76	73	73	73	72						72										
1	82	80	79	77	80	79	77	76	76	75	74	73	72	72	71	70	70	68						68										
2	79	76	73	71	77	75	72	71	72	71	69	70	69	68	68	67	66	65						65										
3	76	72	69	67	74	71	68	66	69	67	65	68	66	64	66	65	63	62						62										
4	73	69	65	63	72	68	65	63	66	64	62	65	63	61	64	62	60	60						60										
5	70	66	62	60	69	65	62	59	64	61	59	63	60	58	62	60	58	57						57										
6	68	63	59	57	67	62	59	57	61	58	56	60	58	56	59	57	56	55						55										
7	65	60	57	54	65	60	56	54	59	56	54	58	56	54	57	55	53	53						53										
8	63	58	54	52	62	57	54	52	57	54	52	56	54	52	55	53	51	51						51										
9	61	56	52	50	60	55	52	50	55	52	50	54	52	50	54	51	50	49						49										
10	59	54	50	48	59	53	50	48	53	50	48	52	50	48	52	50	48	47						47										

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1351547
5°	1137842
10°	809202
15°	565623
20°	345690
25°	181346
30°	102000
35°	66784
40°	29369
45°	10941
50°	7737
55°	4267
60°	3000
65°	2615
70°	2539
75°	2440
80°	2728
85°	2717



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	1235.0	26.1	18.7
10°-20°	1894.8	40.1	28.7
20°-30°	1019.2	21.6	15.4
30°-40°	423.3	9.0	6.4
40°-50°	94.1	2.0	1.4
50°-60°	31.0	0.7	0.5
60°-70°	14.1	0.3	0.2
70°-80°	8.6	0.2	0.1
80°-90°	3.3	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°	4149.1	87.8	62.9
0°-40°	4572.3	96.8	69.3
0°-60°	4697.4	99.5	71.2
0°-90°	4723.3	100.0	71.6
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°	4723.3	100.0	71.6

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	17121	
5°	14359	###
15°	6921	1895
25°	2082	1019
35°	693	423
45°	98	94
55°	31	31
65°	14	14
75°	8	9
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	17121
2.5°	16860
5°	14359
7.5°	11986
10°	10095
12.5°	8449
15°	6921
17.5°	5478
20°	4115
22.5°	2985
25°	2082
27.5°	1476
30°	1119
32.5°	865
35°	693
37.5°	497
40°	285
42.5°	145
45°	98
47.5°	79
50°	63
52.5°	45
55°	31
57.5°	23
60°	19
62.5°	16
65°	14
67.5°	12
70°	11
72.5°	9
75°	8
77.5°	7
80°	6
82.5°	5
85°	3
87.5°	1
90°	0

(END OF REPORT)