

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: P10837

Luminaire Tested: **L505T670**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: P10837
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 FLOOD POSITION (LCL AT 1.8 INCH FROM
REFLECTOR'S EDGE)
Light Source: BI PIN T6 CLEAR CERAMIC METAL HALIDE LAMP
CMH70/T6/830 70 WATTS
Ballast/Driver: -

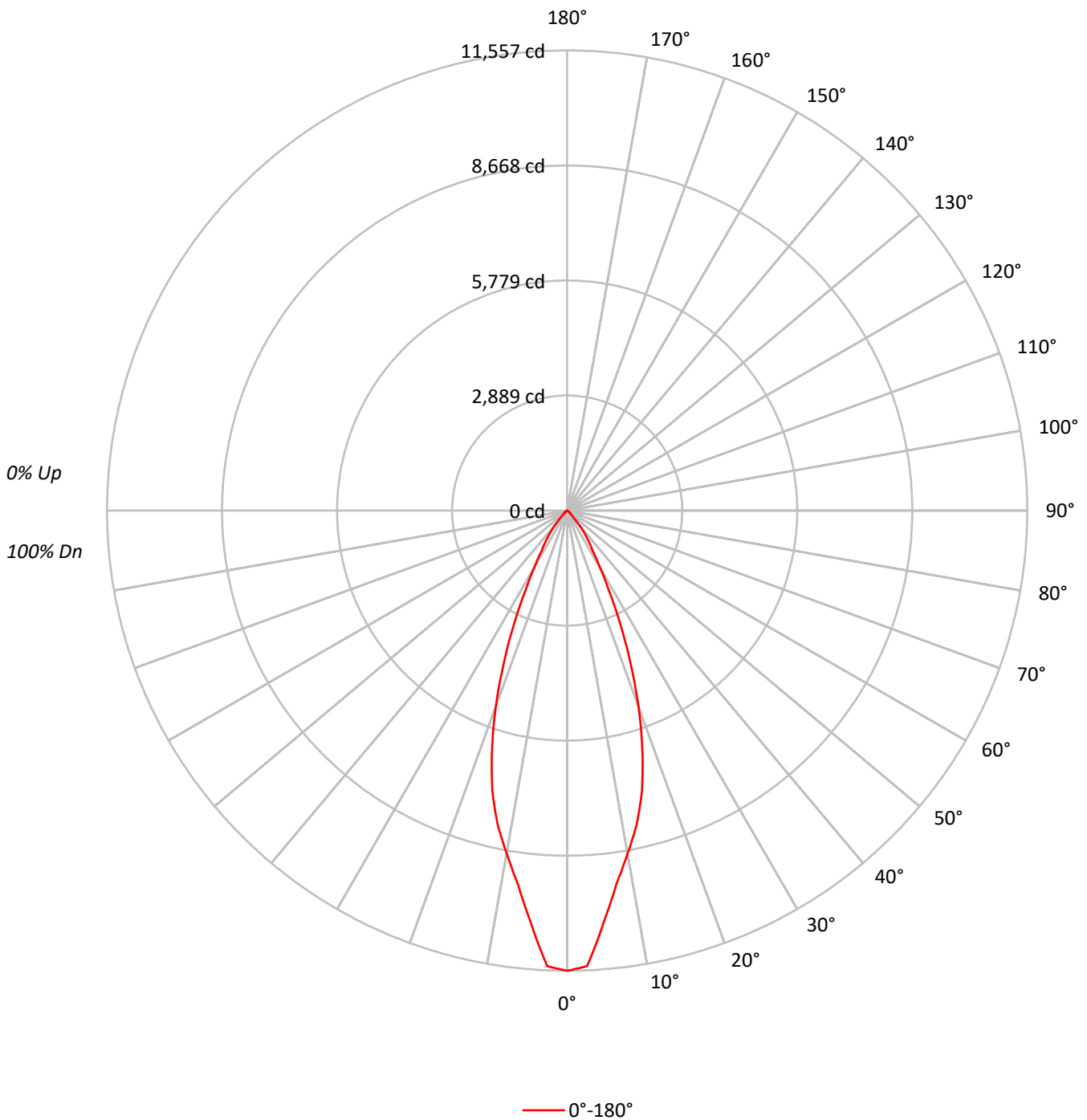
Summary

Lumens per Lamp: 6600 (1 lamp)
Luminaire Lumens: 5179.9 lumens
Efficiency: 78.5%
Efficacy: 74.0 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.62
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									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	50	30	10	0																			
RCR																																														
0	93	93	93	93	91	91	91	91	87	87	87	83	83	83	80	80	80	80	80	80	80	80	80	80	80	80	80	78																		
1	90	88	86	84	88	86	84	83	83	82	80	80	79	78	77	76	76	74	74	73	72	72	72	72	72	72	74	74																		
2	86	82	80	77	84	81	78	76	79	76	75	76	75	73	74	73	72	70	70	69	68	68	68	68	68	68	68	68	70																	
3	82	78	74	72	81	77	73	71	75	72	70	73	71	69	71	69	68	67	67	67	67	67	67	67	67	67	67	67	67																	
4	79	74	70	67	77	73	69	66	71	68	66	70	67	65	68	66	64	63	63	63	63	63	63	63	63	63	63	63	63																	
5	75	70	66	63	74	69	65	63	68	64	62	66	64	61	65	63	61	60	60	60	60	60	60	60	60	60	60	60	60																	
6	72	66	62	59	71	66	62	59	65	61	59	64	61	58	63	60	58	57	57	57	57	57	57	57	57	57	57	57	57																	
7	69	63	59	56	69	63	59	56	62	58	56	61	58	55	60	57	55	54	54	54	54	54	54	54	54	54	54	54	54																	
8	67	60	56	53	66	60	56	53	59	56	53	58	55	53	58	55	53	52	52	52	52	52	52	52	52	52	52	52	52																	
9	64	58	54	51	63	57	53	51	57	53	51	56	53	51	55	52	50	49	49	49	49	49	49	49	49	49	49	49	49																	
10	62	55	51	49	61	55	51	49	54	51	48	54	51	48	53	50	48	47	47	47	47	47	47	47	47	47	47	47	47																	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	912320
5°	824835
10°	700828
15°	593573
20°	439105
25°	275503
30°	148397
35°	90105
40°	44827
45°	14513
50°	10193
55°	6056
60°	3631
65°	2989
70°	2770
75°	2745
80°	3182
85°	2717



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	940.9	18.2	14.3
10°-20°	1976.1	38.1	29.9
20°-30°	1461.1	28.2	22.1
30°-40°	593.9	11.5	9.0
40°-50°	135.9	2.6	2.1
50°-60°	42.3	0.8	0.6
60°-70°	16.4	0.3	0.2
70°-80°	9.9	0.2	0.1
80°-90°	3.4	0.1	0.1
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°	4378.1	84.5	66.3
0°-40°	4972.0	96.0	75.3
0°-60°	5150.2	99.4	78.0
0°-90°	5179.9	100.0	78.5
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°	5179.9	100.0	78.5

CANDELA DISTRIBUTION:

	0°	Flux
0°	11557	
5°	10409	941
15°	7263	1976
25°	3163	1461
35°	935	594
45°	130	136
55°	44	42
65°	16	16
75°	9	10
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	11557
2.5°	11453
5°	10409
7.5°	9463
10°	8743
12.5°	8074
15°	7263
17.5°	6284
20°	5227
22.5°	4180
25°	3163
27.5°	2286
30°	1628
32.5°	1199
35°	935
37.5°	703
40°	435
42.5°	229
45°	130
47.5°	101
50°	83
52.5°	63
55°	44
57.5°	31
60°	23
62.5°	19
65°	16
67.5°	14
70°	12
72.5°	11
75°	9
77.5°	8
80°	7
82.5°	5
85°	3
87.5°	1
90°	0

(END OF REPORT)