

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: H20125

Luminaire Tested: **L530039E**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-46-04  
Report Number: H20125  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L530039E  
Description: HALO 39 WATT ADJUSTABLE BEAM FIXTURE  
WITH SPECULAR SUPER SPOT REFLECTOR  
AND CLEAR GLASS LENS  
Light Source: CMH39/TC/U/830 39 WATTS 3400 LUMENS  
BI PIN T4.5 METAL HALIDE LAMP  
Ballast/Driver: -

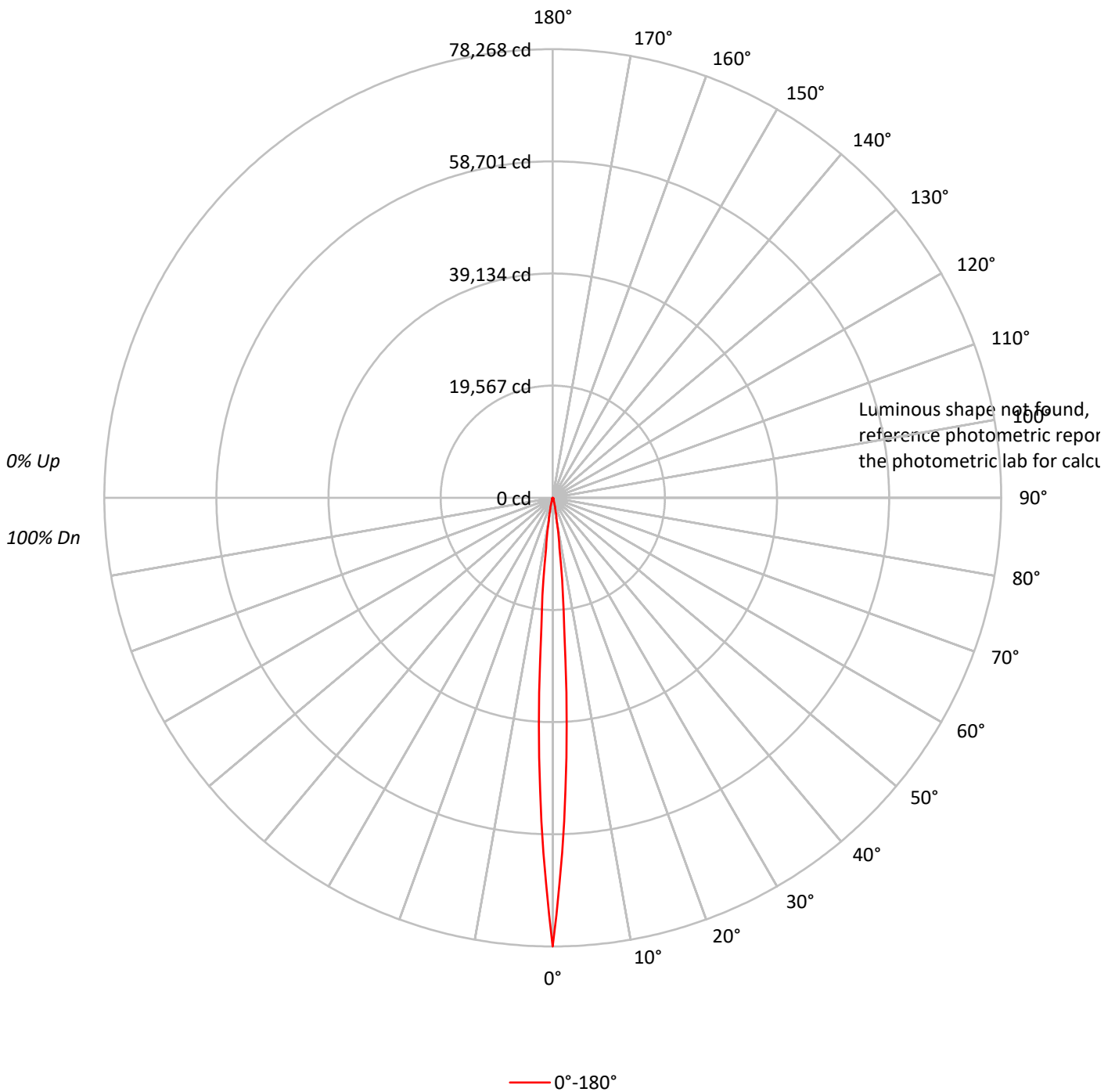
**Summary**

Lumens per Lamp: 3400 (1 lamp)  
Luminaire Lumens: 2638.2 lumens  
Efficiency: 77.6%  
Efficacy: 52.8 lumens/watt  
Spacing Criteria (0/90/45): 0.12 / 0.12 / 0.14  
Luminous Opening: (L: 0' x W: -0.38' x H: 0'  
CIE Type: Direct

Input Watts (W): 50  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



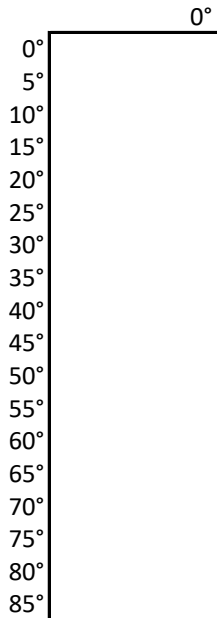


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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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	92	92	92	92	90	90	90	90	86	86	86		83	83	83		79	79	79	78
1	89	88	86	85	87	86	85	84	83	82	81		80	79	79		78	77	76	75
2	87	84	82	80	85	83	81	79	80	79	77		78	77	76		76	75	74	73
3	84	81	78	76	83	80	78	76	78	76	74		76	75	73		75	73	72	71
4	82	78	76	73	81	78	75	73	76	74	72		75	73	71		73	72	71	70
5	80	76	73	71	79	76	73	71	74	72	70		73	71	70		72	70	69	68
6	79	74	71	69	78	74	71	69	73	70	69		72	70	68		71	69	68	67
7	77	73	70	68	76	72	70	68	71	69	67		71	69	67		70	68	67	66
8	76	71	69	67	75	71	68	67	70	68	66		70	68	66		69	67	66	65
9	74	70	67	66	74	70	67	66	69	67	65		69	67	65		68	66	65	64
10	73	69	66	65	73	69	66	65	68	66	64		68	66	64		67	66	64	64

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	1784.9	67.7	52.5
10°-20°	383.2	14.5	11.3
20°-30°	145.8	5.5	4.3
30°-40°	142.2	5.4	4.2
40°-50°	97.0	3.7	2.9
50°-60°	25.4	1.0	0.7
60°-70°	22.6	0.9	0.7
70°-80°	23.3	0.9	0.7
80°-90°	13.1	0.5	0.4
90°-100°	0.8	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°	2313.9	87.7	68.1
0°-40°	2456.2	93.1	72.2
0°-60°	2578.5	97.7	75.8
0°-90°	2637.4	100.0	77.6
90°-120°	0.8	0.0	0.0
90°-150°	0.8	0.0	0.0
90°-180°	1.0	0.0	0.0
0°-180°	2638.2	100.0	77.6

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	78268	
5°	22676	###
15°	1097	383
25°	306	146
35°	221	142
45°	121	97
55°	28	25
65°	23	23
75°	22	23
85°	12	11
90°	6	2
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	78268
2.5°	51047
5°	22676
7.5°	8836
10°	3975
12.5°	2119
15°	1097
17.5°	650
20°	450
22.5°	357
25°	306
27.5°	271
30°	247
32.5°	231
35°	221
37.5°	221
40°	222
42.5°	208
45°	121
47.5°	55
50°	37
52.5°	30
55°	28
57.5°	25
60°	24
62.5°	23
65°	23
67.5°	22
70°	22
72.5°	23
75°	22
77.5°	22
80°	20
82.5°	17
85°	12
87.5°	6
90°	6
92.5°	0
95°	0
97.5°	0
100°	0
102.5°	0
105°	0
107.5°	0
110°	0



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	0
115°	0
117.5°	0
120°	0
122.5°	0
125°	0
127.5°	0
130°	0
132.5°	0
135°	0
137.5°	0
140°	0
142.5°	0
145°	0
147.5°	0
150°	0
152.5°	0
155°	0
157.5°	0
160°	0
162.5°	0
165°	0
167.5°	0
170°	0
172.5°	0
175°	0
177.5°	0
180°	0

(END OF REPORT)