

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: H20124

Luminaire Tested: **L530070E**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-46-04  
Report Number: H20124  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L530070E  
Description: HALO 70 WATT ADJUSTABLE BEAM FIXTURE  
WITH SPECULAR SUPER SPOT REFLECTOR  
AND CLEAR GLASS LENS WITH 45 DEGREE FLAT BLACK GLARE SHIELD  
Light Source: CMH70/TC/U/830 70 WATTS 6600 LUMENS  
BI PIN T4.5 METAL HALIDE LAMP  
Ballast/Driver: -

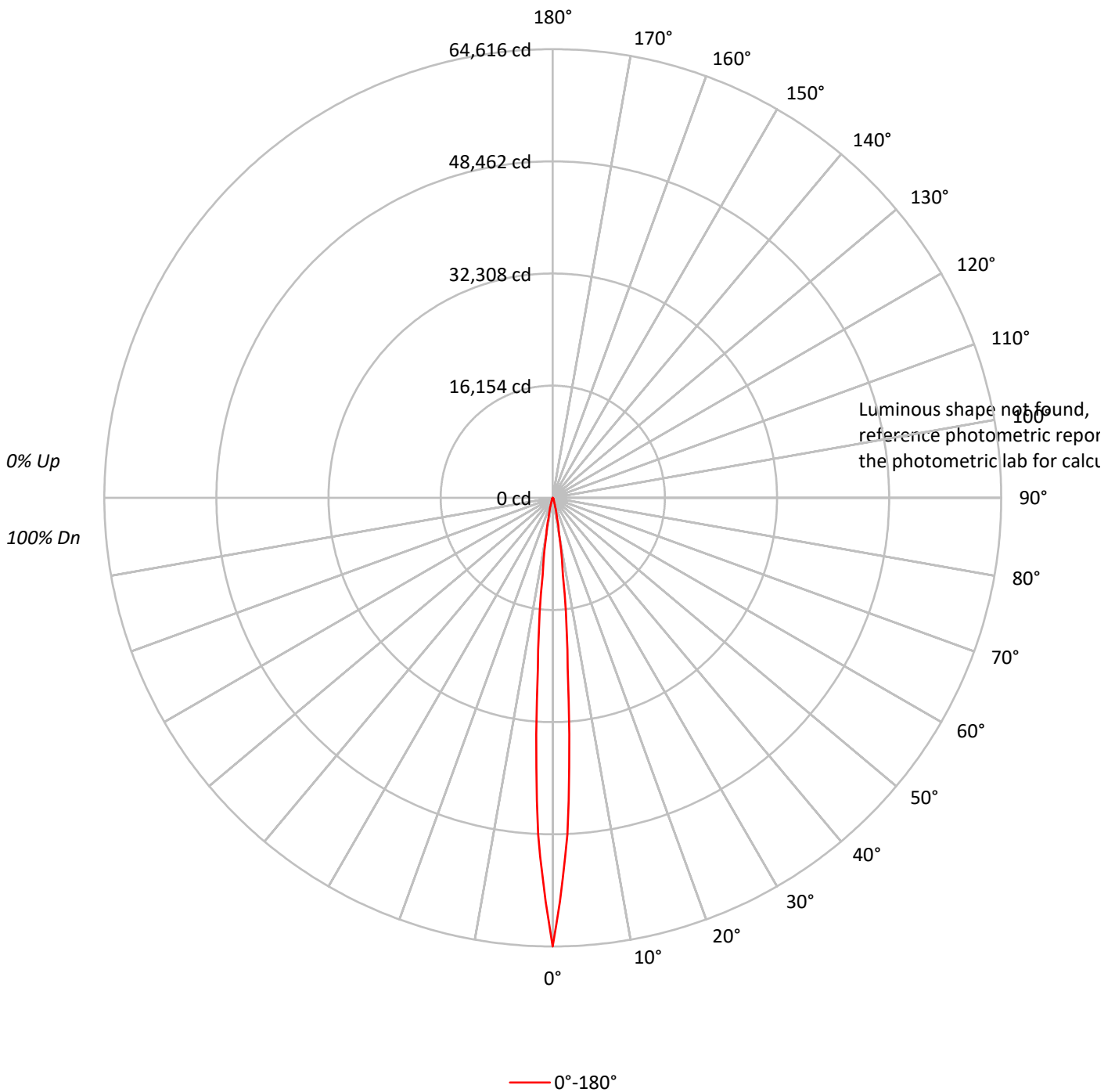
**Summary**

Lumens per Lamp: 6600 (1 lamp)  
Luminaire Lumens: 2670.3 lumens  
Efficiency: 40.5%  
Efficacy: 33.4 lumens/watt  
Spacing Criteria (0/90/45): 0.15 / 0.15 / 0.16  
Luminous Opening: (L: 0 ' x W: -0.38 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 80  
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: H20124  
CATALOG NUMBER: L530070E

### Luminous Intensity Polar Plot



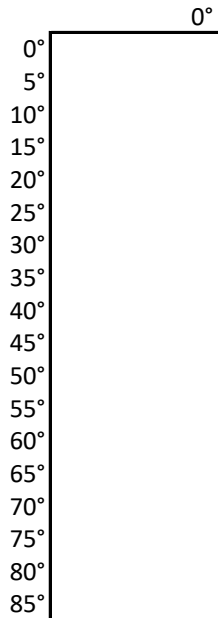


TEST NUMBER: H20124  
 CATALOG NUMBER: L530070E

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

RF	20				20				20				20				20			
RC	80				70				50				30				10			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	48	48	48	48	47	47	47	47	45	45	45	43	43	43	41	41	41	40	40	40
1	47	46	45	45	46	45	44	44	44	43	43	42	42	41	41	40	40	39	39	39
2	45	44	43	42	45	44	43	42	42	42	41	41	41	40	40	40	39	39	39	39
3	44	43	42	41	44	42	41	40	41	40	40	40	40	39	40	39	38	38	38	38
4	43	42	40	39	43	41	40	39	40	39	39	40	39	38	39	38	38	37	37	37
5	43	41	39	38	42	40	39	38	40	39	38	39	38	38	39	38	37	37	37	37
6	42	40	38	37	41	40	38	37	39	38	37	39	38	37	38	37	37	36	36	36
7	41	39	38	37	41	39	38	37	38	37	37	38	37	36	38	37	36	36	36	36
8	40	38	37	36	40	38	37	36	38	37	36	38	37	36	37	36	36	35	35	35
9	40	38	37	36	40	38	36	36	37	36	36	37	36	35	37	36	35	35	35	35
10	39	37	36	35	39	37	36	35	37	36	35	37	36	35	36	36	35	35	35	35

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





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 CATALOG NUMBER: L530070E

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	1874.4	70.2	28.4
10°-20°	482.2	18.1	7.3
20°-30°	136.2	5.1	2.1
30°-40°	77.0	2.9	1.2
40°-50°	46.2	1.7	0.7
50°-60°	21.2	0.8	0.3
60°-70°	10.2	0.4	0.2
70°-80°	10.6	0.4	0.2
80°-90°	10.9	0.4	0.2
90°-100°	1.4	0.1	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°	2492.8	93.4	37.8
0°-40°	2569.8	96.2	38.9
0°-60°	2637.3	98.8	40.0
0°-90°	2668.9	99.9	40.4
90°-120°	1.4	0.1	0.0
90°-150°	1.4	0.1	0.0
90°-180°	1.0	0.0	0.0
0°-180°	2670.3	100.0	40.5

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	64616	
5°	24622	###
15°	1394	482
25°	278	136
35°	120	77
45°	58	46
55°	21	21
65°	10	10
75°	10	11
85°	10	8
90°	10	4
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°	64616
2.5°	48457
5°	24622
7.5°	11274
10°	5299
12.5°	2528
15°	1394
17.5°	834
20°	521
22.5°	357
25°	278
27.5°	226
30°	183
32.5°	145
35°	120
37.5°	97
40°	88
42.5°	72
45°	58
47.5°	48
50°	39
52.5°	30
55°	21
57.5°	19
60°	12
62.5°	10
65°	10
67.5°	10
70°	10
72.5°	10
75°	10
77.5°	10
80°	10
82.5°	10
85°	10
87.5°	10
90°	10
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)