

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: H20122

Luminaire Tested: **L530070E**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H20122
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 15 DEGREE FLAT BLACK GLARE SHIELD
Light Source: CMH70/TC/U/830 70 WATTS 6600 LUMENS
BI PIN T4.5 METAL HALIDE LAMP
Ballast/Driver: -

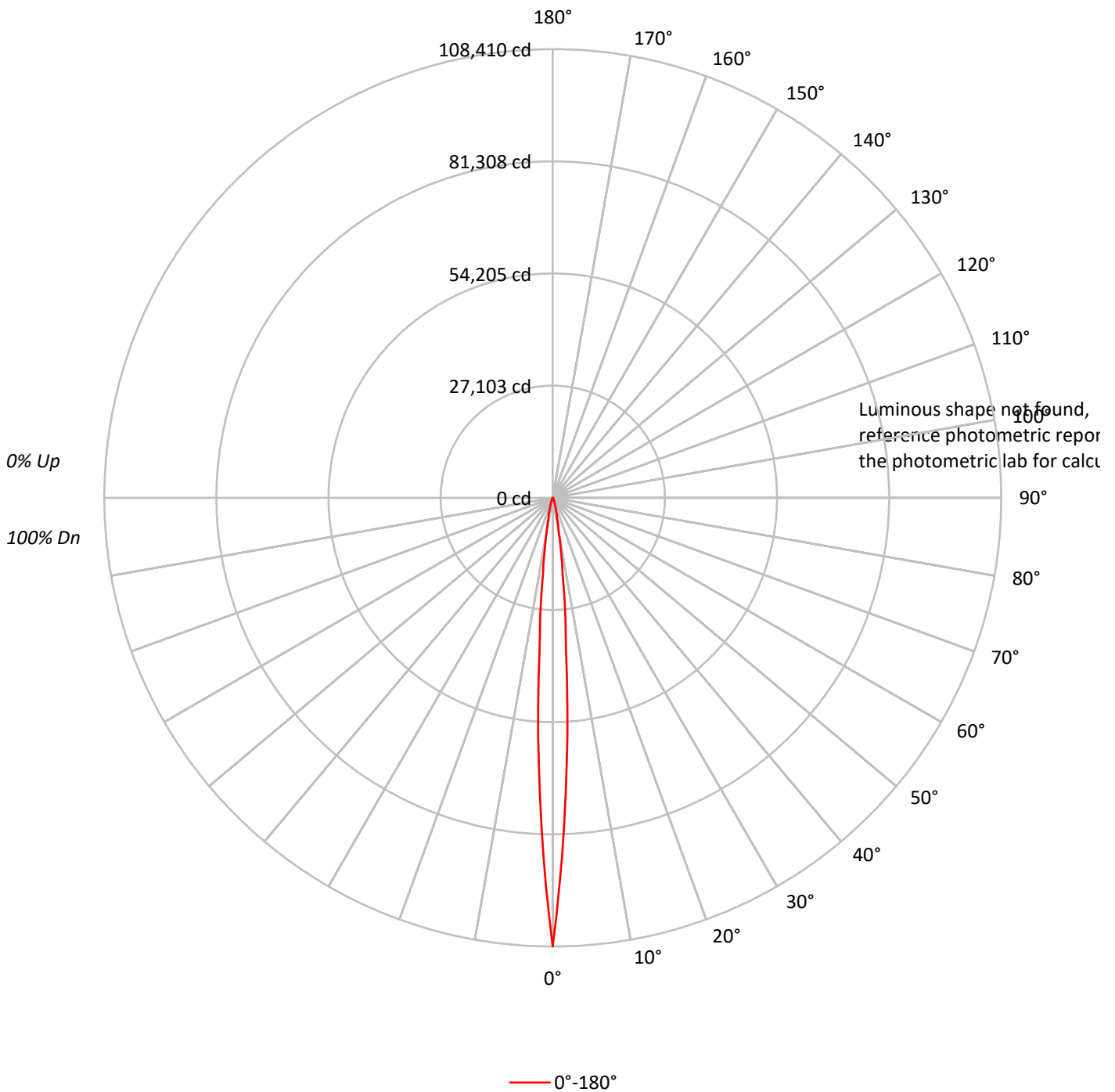
Summary

Lumens per Lamp: 6600 (1 lamp)
Luminaire Lumens: 4286.0 lumens
Efficiency: 64.9%
Efficacy: 53.6 lumens/watt
Spacing Criteria (0/90/45): 0.13 / 0.13 / 0.15
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

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Luminous Intensity Polar Plot



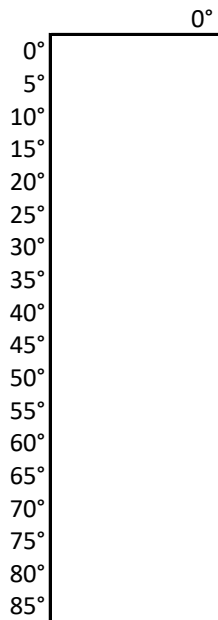


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	77	77	77	77	76	76	76	76	72	72	72		69	69	69		66	66	66	65
1	75	74	73	72	74	72	72	71	70	69	69		68	67	66		65	65	65	64
2	73	71	69	68	72	70	69	67	68	67	66		66	65	64		65	64	63	62
3	71	69	67	65	70	68	66	65	66	65	64		65	64	63		64	63	62	61
4	70	67	65	63	69	66	64	63	65	63	62		64	63	61		63	62	61	60
5	68	65	63	62	68	65	63	61	64	62	61		63	61	60		62	61	60	59
6	67	64	62	60	66	63	61	60	63	61	60		62	60	59		61	60	59	58
7	66	63	61	59	65	62	60	59	62	60	59		61	59	58		60	59	58	58
8	65	62	59	58	64	61	59	58	61	59	58		60	59	57		60	58	57	57
9	64	61	58	57	63	60	58	57	60	58	57		59	58	57		59	58	57	56
10	63	60	58	56	62	59	58	56	59	57	56		59	57	56		58	57	56	55

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	2873.6	67.0	43.5
10°-20°	909.8	21.2	13.8
20°-30°	283.4	6.6	4.3
30°-40°	142.4	3.3	2.2
40°-50°	29.5	0.7	0.4
50°-60°	14.5	0.3	0.2
60°-70°	9.9	0.2	0.2
70°-80°	10.6	0.2	0.2
80°-90°	10.9	0.3	0.2
90°-100°	1.4	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°	4066.9	94.9	61.6
0°-40°	4209.3	98.2	63.8
0°-60°	4253.2	99.2	64.4
0°-90°	4284.7	100.0	64.9
90°-120°	1.4	0.0	0.0
90°-150°	1.4	0.0	0.0
90°-180°	1.0	0.0	0.0
0°-180°	4286.0	100.0	64.9

CANDELA DISTRIBUTION:

	0°	Flux
0°	108410	
5°	36500	###
15°	2890	910
25°	550	283
35°	230	142
45°	30	30
55°	20	14
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°	108410
2.5°	71690
5°	36500
7.5°	18060
10°	8370
12.5°	4690
15°	2890
17.5°	1840
20°	1160
22.5°	800
25°	550
27.5°	420
30°	380
32.5°	350
35°	230
37.5°	130
40°	70
42.5°	50
45°	30
47.5°	30
50°	20
52.5°	20
55°	20
57.5°	10
60°	10
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)