

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: H20121

Luminaire Tested: **L530070E**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H20121
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
Light Source: CMH70/TC/U/830 70 WATTS 6600 LUMENS
BI PIN T4.5 METAL HALIDE LAMP
Ballast/Driver: -

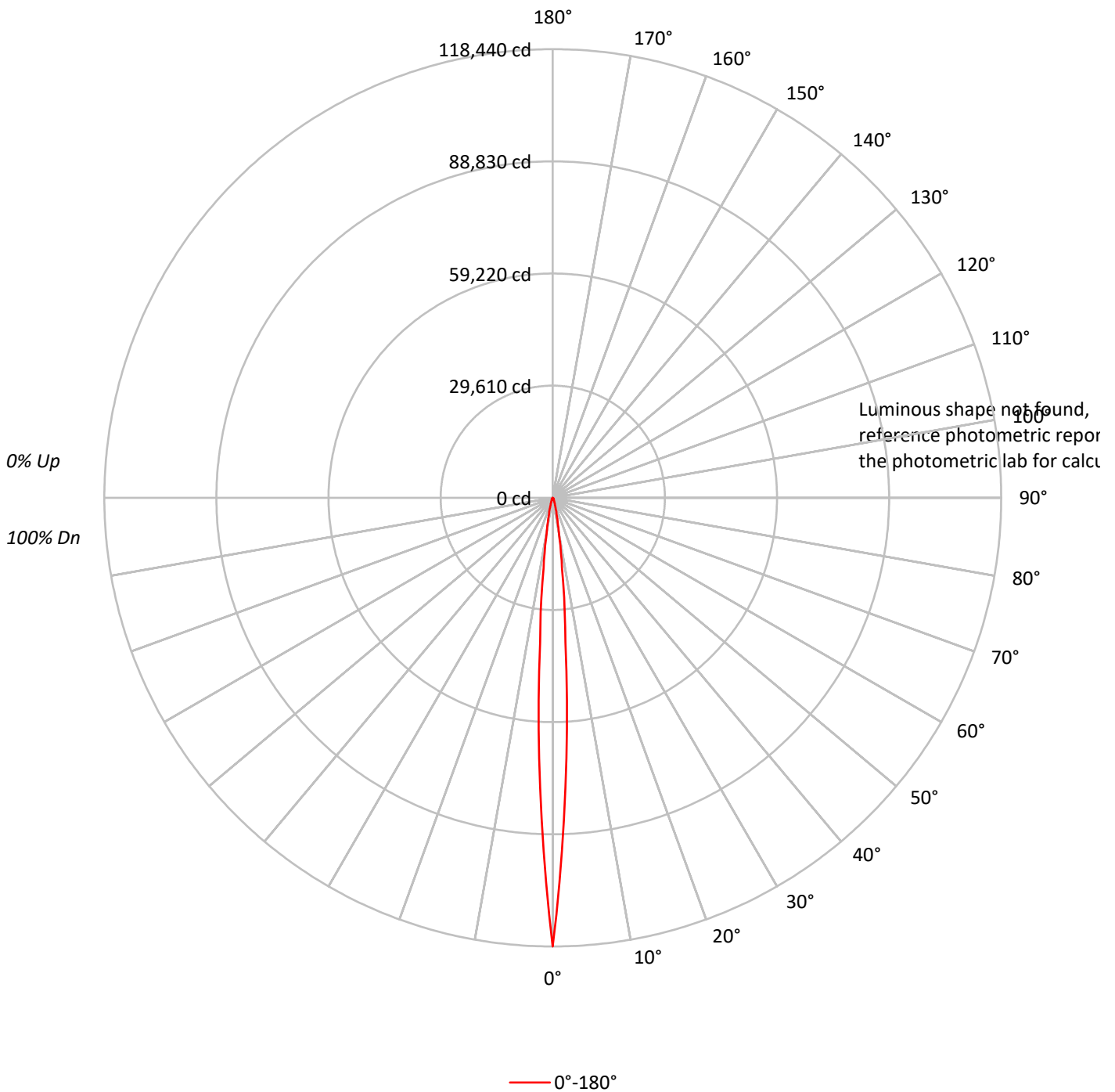
Summary

Lumens per Lamp: 6600 (1 lamp)
Luminaire Lumens: 4988.7 lumens
Efficiency: 75.6%
Efficacy: 62.4 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 (A_{in}): 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



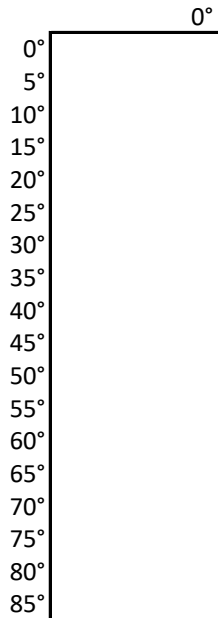


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	90	90	90	90	88	88	88	88	84	84	84		80	80	80		77	77	77	76
1	87	85	84	82	85	84	82	81	81	80	79		78	77	76		75	75	74	73
2	84	81	79	77	83	80	78	76	78	76	75		76	74	73		74	73	72	71
3	82	78	76	73	80	77	75	73	75	73	72		74	72	71		72	71	70	69
4	79	75	73	70	78	75	72	70	73	71	69		72	70	68		71	69	68	67
5	77	73	70	68	76	73	70	68	71	69	67		70	68	67		69	68	66	65
6	76	71	68	66	75	71	68	66	70	67	66		69	67	65		68	66	65	64
7	74	69	67	65	73	69	66	64	68	66	64		67	65	64		67	65	64	63
8	72	68	65	63	72	68	65	63	67	65	63		66	64	63		66	64	62	62
9	71	67	64	62	70	66	64	62	66	63	62		65	63	62		65	63	61	61
10	70	65	63	61	69	65	63	61	65	62	61		64	62	61		64	62	60	60

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	3031.7	60.8	45.9
10°-20°	967.9	19.4	14.7
20°-30°	347.4	7.0	5.3
30°-40°	280.4	5.6	4.2
40°-50°	193.2	3.9	2.9
50°-60°	52.5	1.1	0.8
60°-70°	43.3	0.9	0.7
70°-80°	42.3	0.8	0.6
80°-90°	28.6	0.6	0.4
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°	4347.1	87.1	65.9
0°-40°	4627.4	92.8	70.1
0°-60°	4873.1	97.7	73.8
0°-90°	4987.4	100.0	75.6
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°	4988.7	100.0	75.6

CANDELA DISTRIBUTION:

	0°	Flux
0°	118440	
5°	38210	###
15°	3070	968
25°	710	347
35°	430	280
45°	240	193
55°	60	52
65°	40	43
75°	40	42
85°	30	24
90°	10	5
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°	118440
2.5°	76520
5°	38210
7.5°	18640
10°	8790
12.5°	5010
15°	3070
17.5°	1960
20°	1280
22.5°	920
25°	710
27.5°	570
30°	500
32.5°	460
35°	430
37.5°	430
40°	440
42.5°	380
45°	240
47.5°	140
50°	80
52.5°	60
55°	60
57.5°	50
60°	50
62.5°	50
65°	40
67.5°	40
70°	40
72.5°	40
75°	40
77.5°	40
80°	40
82.5°	30
85°	30
87.5°	20
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)