

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: H20123

Luminaire Tested: **L530070E**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H20123
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 30 DEGREE FLAT BLACK GLARE SHIELD
Light Source: CMH70/TC/U/830 70 WATTS 6600 LUMENS
BI PIN T4.5 METAL HALIDE LAMP
Ballast/Driver: -

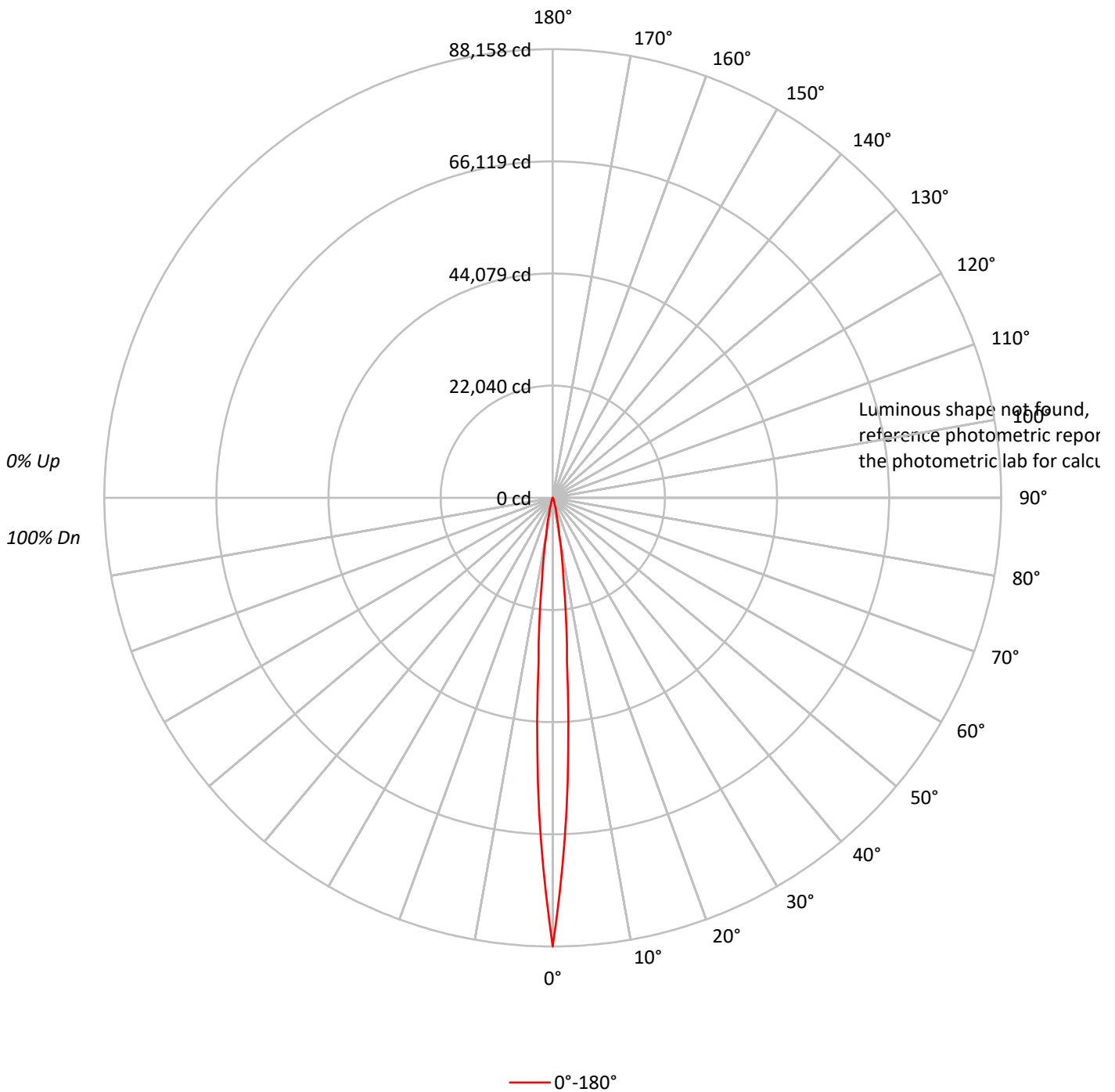
Summary

Lumens per Lamp: 6600 (1 lamp)
Luminaire Lumens: 3480.9 lumens
Efficiency: 52.7%
Efficacy: 43.5 lumens/watt
Spacing Criteria (0/90/45): 0.14 / 0.14 / 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 (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

TEST NUMBER: H20123
CATALOG NUMBER: L530070E

Luminous Intensity Polar Plot



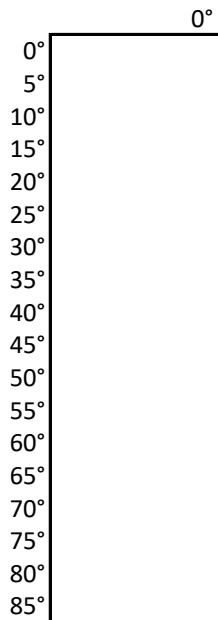


TEST NUMBER: H20123
 CATALOG NUMBER: L530070E

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	63	63	63	63	61	61	61	61	59	59	59	56	56	56	54	54	54	53	53	53	52	52	52
1	61	60	59	58	60	59	58	58	57	56	56	55	55	54	53	53	53	52	52	52	51	51	51
2	60	58	57	56	58	57	56	55	55	55	54	54	53	53	53	52	52	51	51	51	50	50	50
3	58	56	55	53	57	56	54	53	54	53	52	53	52	51	52	51	51	50	50	50	49	49	49
4	57	55	53	52	56	54	53	52	53	52	51	52	51	50	51	51	50	49	49	49	48	48	48
5	56	54	52	51	55	53	52	50	52	51	50	52	50	50	51	50	49	50	49	49	48	48	48
6	55	52	51	50	54	52	51	49	52	50	49	51	50	49	50	49	49	49	48	48	47	47	47
7	54	52	50	49	54	51	50	49	51	49	48	50	49	48	50	49	48	49	48	48	47	47	47
8	53	51	49	48	53	51	49	48	50	49	48	50	49	48	49	48	48	49	48	47	47	47	47
9	53	50	49	47	52	50	48	47	50	48	47	49	48	47	49	48	47	48	47	47	46	46	46
10	52	49	48	47	52	49	48	47	49	48	47	49	48	47	48	47	47	46	46	46	45	45	45

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: H20123
 CATALOG NUMBER: L530070E

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	2491.2	71.6	37.7
10°-20°	695.7	20.0	10.5
20°-30°	154.4	4.4	2.3
30°-40°	54.8	1.6	0.8
40°-50°	33.7	1.0	0.5
50°-60°	20.8	0.6	0.3
60°-70°	11.1	0.3	0.2
70°-80°	10.6	0.3	0.2
80°-90°	7.8	0.2	0.1
90°-100°	1.0	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°	3341.2	96.0	50.6
0°-40°	3396.0	97.6	51.5
0°-60°	3450.5	99.1	52.3
0°-90°	3479.9	100.0	52.7
90°-120°	1.0	0.0	0.0
90°-150°	1.0	0.0	0.0
90°-180°	1.0	0.0	0.0
0°-180°	3480.9	100.0	52.7

CANDELA DISTRIBUTION:

	0°	Flux
0°	88158	
5°	32118	###
15°	2148	696
25°	303	154
35°	85	55
45°	44	34
55°	22	21
65°	10	11
75°	10	11
85°	7	6
90°	7	3
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°	88158
2.5°	61841
5°	32118
7.5°	15920
10°	7269
12.5°	3804
15°	2148
17.5°	1122
20°	699
22.5°	500
25°	303
27.5°	184
30°	134
32.5°	101
35°	85
37.5°	72
40°	58
42.5°	52
45°	44
47.5°	36
50°	29
52.5°	29
55°	22
57.5°	19
60°	18
62.5°	11
65°	10
67.5°	10
70°	10
72.5°	10
75°	10
77.5°	10
80°	10
82.5°	7
85°	7
87.5°	6
90°	7
92.5°	0
95°	0
97.5°	0
100°	0
102.5°	0
105°	0
107.5°	0
110°	0



TEST NUMBER: H20123
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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)