

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: H37014

Luminaire Tested: **H600T-1603BA**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: H37014  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H600T-1603BA  
Description: HALO RECESSED DOWNLIGHT  
BRIGHT DIPPED & ANODIZED REFLECTOR  
BLACK CONE BAFFLE - HIGH SOCKET SETTING  
Light Source: 150A21 150 WATTS 2850 LUMENS  
A21 INSIDE FROSTED  
Ballast/Driver: -

**Summary**

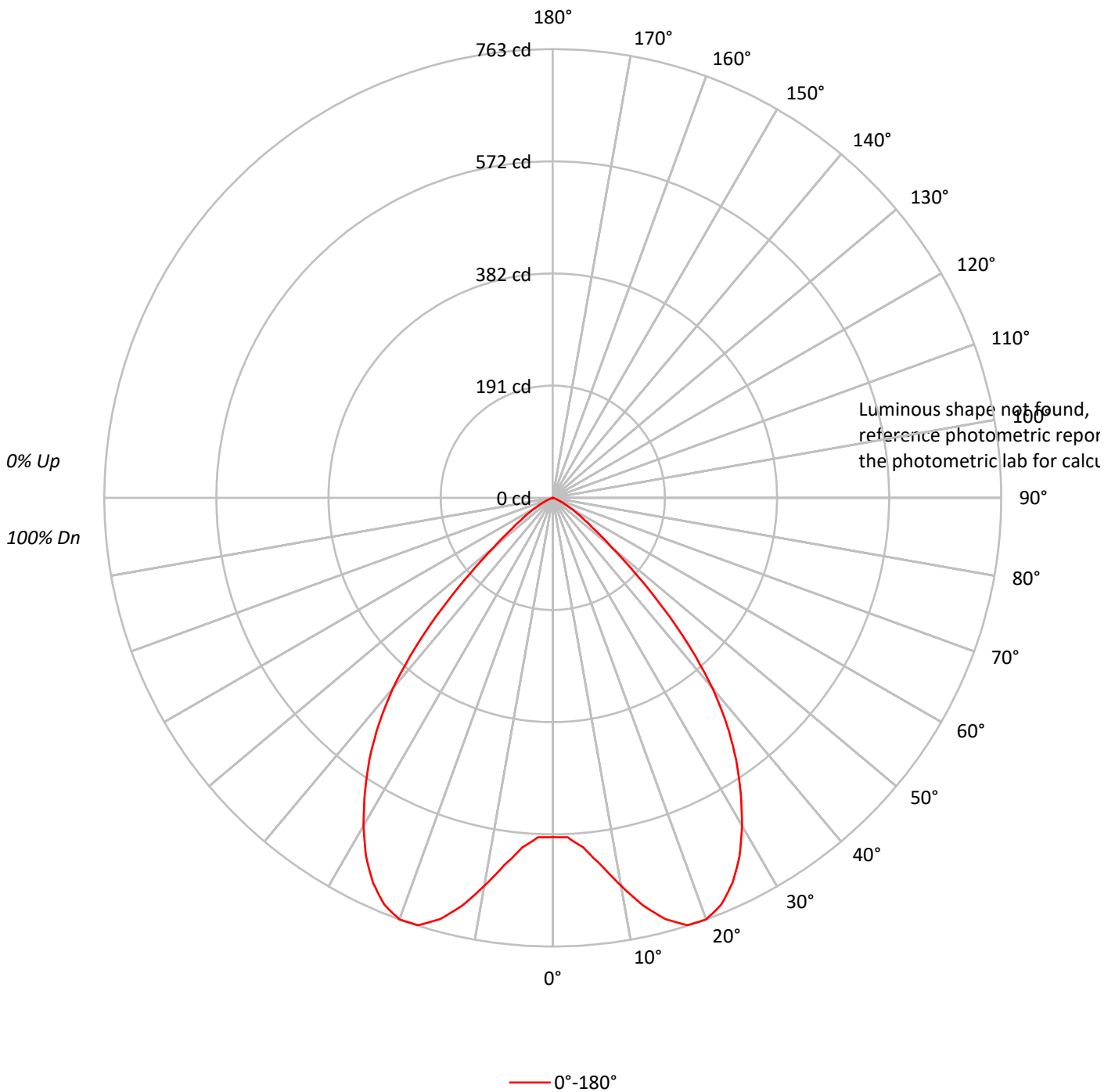
Lumens per Lamp: 2850 (1 lamp)  
Luminaire Lumens: 1223.8 lumens  
Efficiency: 42.9%  
Efficacy: 8.2 lumens/watt  
Spacing Criteria (0/90/45): 1.42 / 1.42 / 1.28  
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 150  
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



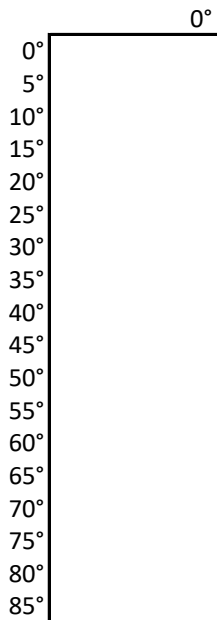


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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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	51	51	51	51	50	50	50	50	48	48	48	46	46	46	44	44	44	43
1	48	47	46	45	47	46	45	44	44	43	43	43	42	41	41	41	40	39
2	45	43	41	39	44	42	40	39	41	39	38	39	38	37	38	37	36	35
3	42	39	37	35	42	39	36	34	37	35	34	36	35	33	35	34	33	32
4	40	36	33	31	39	35	33	31	34	32	30	33	31	30	33	31	30	29
5	37	33	30	28	36	32	30	28	32	29	27	31	29	27	30	28	27	26
6	35	30	27	25	34	30	27	25	29	27	25	29	26	25	28	26	24	24
7	33	28	25	23	32	28	25	23	27	24	22	26	24	22	26	24	22	22
8	31	26	23	21	30	26	23	21	25	22	21	25	22	20	24	22	20	20
9	29	24	21	19	28	24	21	19	23	21	19	23	20	19	22	20	19	18
10	27	22	19	17	27	22	19	17	22	19	17	21	19	17	21	19	17	17

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	59.4	4.9	2.1
10°-20°	209.1	17.1	7.3
20°-30°	329.7	26.9	11.6
30°-40°	336.5	27.5	11.8
40°-50°	206.7	16.9	7.3
50°-60°	64.1	5.2	2.3
60°-70°	16.1	1.3	0.6
70°-80°	1.8	0.2	0.1
80°-90°	0.4	0.0	0.0
90°-100°	0.0	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°	598.2	48.9	21.0
0°-40°	934.7	76.4	32.8
0°-60°	1205.5	98.5	42.3
0°-90°	1223.8	100.0	42.9
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	1223.8	100.0	42.9

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	577	
5°	597	59
15°	742	209
25°	723	330
35°	544	336
45°	268	207
55°	66	64
65°	15	16
75°	2	2
85°	0	0
90°	0	0
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	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	577
2.5°	578
5°	597
7.5°	630
10°	670
12.5°	710
15°	742
17.5°	762
20°	763
22.5°	749
25°	723
27.5°	688
30°	644
32.5°	595
35°	544
37.5°	487
40°	423
42.5°	348
45°	268
47.5°	191
50°	131
52.5°	92
55°	66
57.5°	49
60°	34
62.5°	24
65°	15
67.5°	8
70°	3
72.5°	2
75°	2
77.5°	1
80°	1
82.5°	1
85°	0
87.5°	0
90°	0
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)