

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: H37020

Luminaire Tested: **H600T-1603C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H37020
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H600T-1603C
Description: HALO RECESSED DOWNLIGHT
BRIGHT DIPPED & ANODIZED REFLECTOR & CONE
HIGH SOCKET SETTING
Light Source: 150PAR38 150 WATTS 1740 LUMENS
PAR38 SPOT
Ballast/Driver: -

Summary

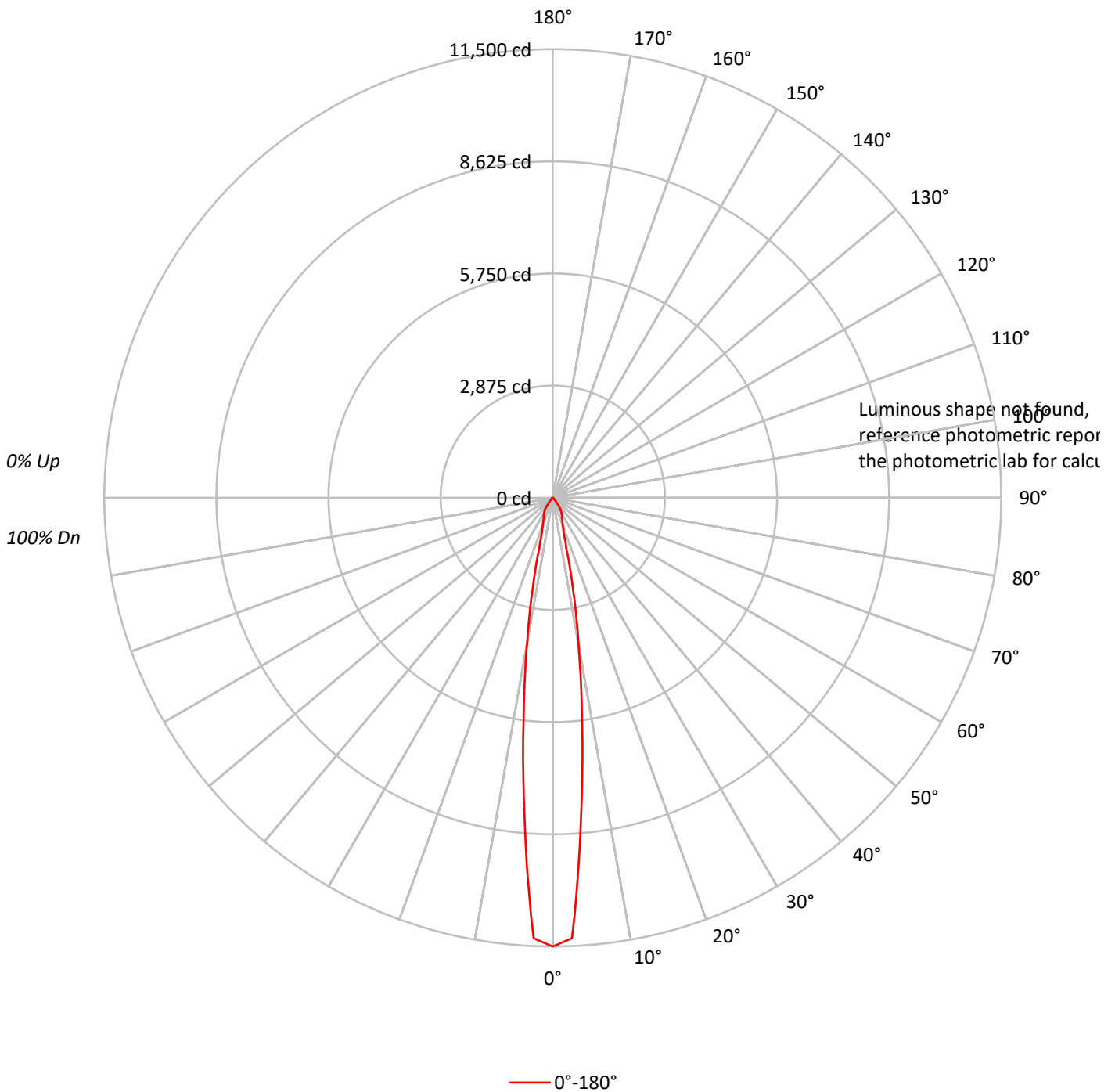
Lumens per Lamp: 1740 (1 lamp)
Luminaire Lumens: 1608.1 lumens
Efficiency: 92.4%
Efficacy: 10.7 lumens/watt
Spacing Criteria (0/90/45): 0.26 / 0.26 / 0.28
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 150
Input Voltage (V): NR
Input Current (A_{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: H37020
CATALOG NUMBER: H600T-1603C

Luminous Intensity Polar Plot





TEST NUMBER: H37020
 CATALOG NUMBER: H600T-1603C

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	110	110	110	110	107	107	107	107	103	103	103		98	98	98		94	94	94	92
1	106	104	102	100	104	102	100	99	98	97	96		95	94	93		92	91	90	89
2	102	99	96	93	100	97	94	92	94	92	90		91	90	88		89	88	86	85
3	99	94	90	87	97	93	89	87	90	88	85		88	86	84		86	84	83	82
4	95	90	86	83	94	89	85	82	87	84	81		85	83	80		84	81	80	78
5	92	86	82	79	91	85	81	79	84	80	78		82	80	77		81	79	77	76
6	89	83	79	76	88	82	78	75	81	77	75		80	77	74		79	76	74	73
7	86	80	76	73	85	79	75	73	78	75	72		77	74	72		76	74	72	71
8	84	77	73	70	83	77	73	70	76	72	70		75	72	70		74	72	69	68
9	81	75	71	68	81	74	71	68	74	70	68		73	70	68		72	69	67	66
10	79	73	69	66	78	72	69	66	72	68	66		71	68	66		71	68	66	65

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: H37020
 CATALOG NUMBER: H600T-1603C

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	649.9	40.4	37.4
10°-20°	446.4	27.8	25.7
20°-30°	261.0	16.2	15.0
30°-40°	180.4	11.2	10.4
40°-50°	40.5	2.5	2.3
50°-60°	17.9	1.1	1.0
60°-70°	8.9	0.6	0.5
70°-80°	2.6	0.2	0.2
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°	1357.3	84.4	78.0
0°-40°	1537.8	95.6	88.4
0°-60°	1596.2	99.3	91.7
0°-90°	1608.1	100.0	92.4
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°	1608.1	100.0	92.4

CANDELA DISTRIBUTION:

	0°	Flux
0°	11500	
5°	8270	650
15°	1336	446
25°	554	261
35°	321	180
45°	39	40
55°	20	18
65°	9	9
75°	2	3
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	0



TEST NUMBER: H37020
CATALOG NUMBER: H600T-1603C

CANDELA DISTRIBUTION (FULL):

0°	
0°	11500
2.5°	11297
5°	8270
7.5°	5709
10°	3776
12.5°	2399
15°	1336
17.5°	916
20°	746
22.5°	639
25°	554
27.5°	501
30°	445
32.5°	390
35°	321
37.5°	187
40°	113
42.5°	71
45°	39
47.5°	33
50°	28
52.5°	24
55°	20
57.5°	16
60°	13
62.5°	11
65°	9
67.5°	7
70°	5
72.5°	3
75°	2
77.5°	2
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



TEST NUMBER: H37020
CATALOG NUMBER: H600T-1603C

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)