

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: H37005

Luminaire Tested: **H600T-1603C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H37005
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: 150R40 150 WATTS 1900 LUMENS
R40 FLOOD
Ballast/Driver: -

Summary

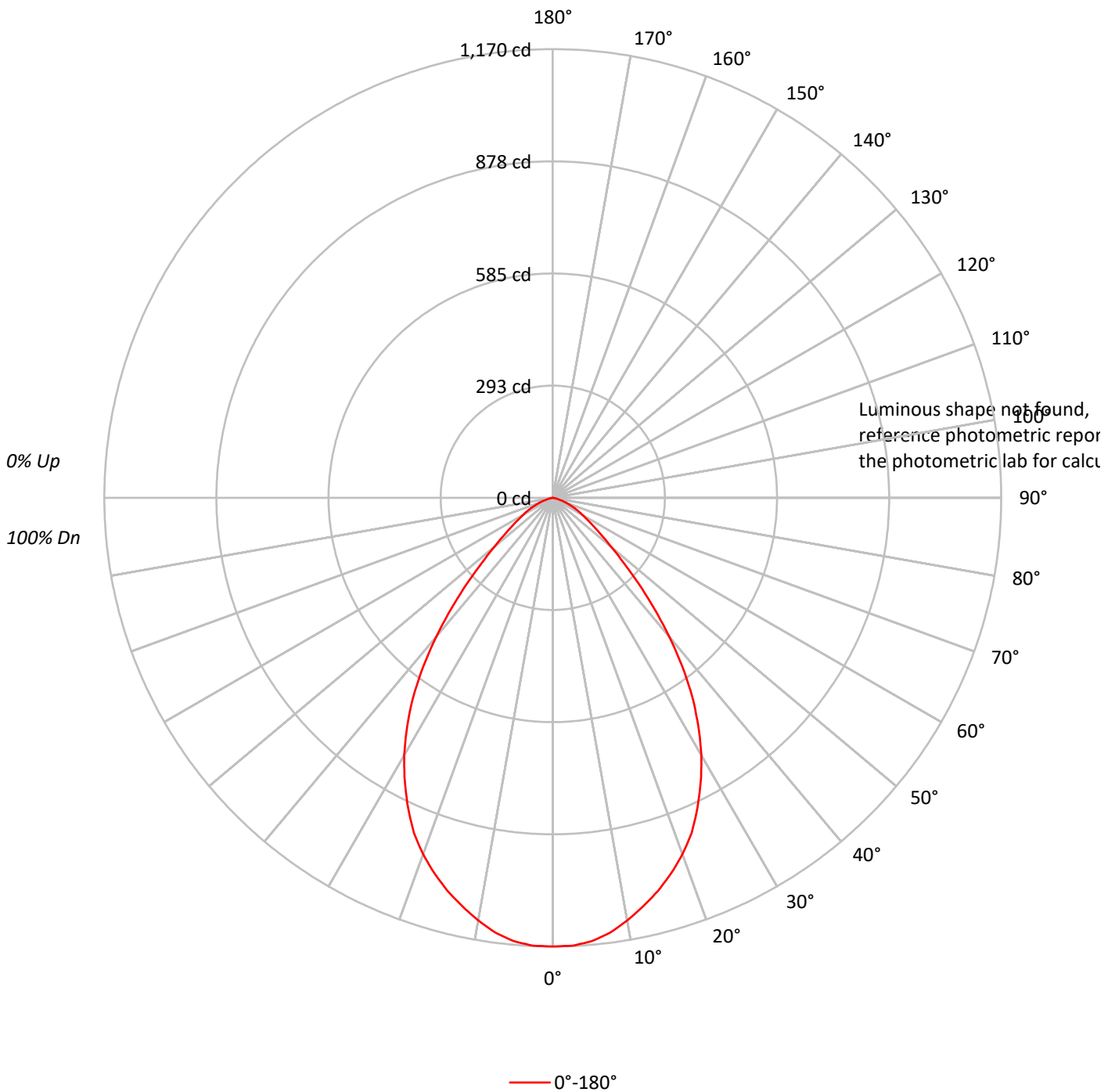
Lumens per Lamp: 1900 (1 lamp)
Luminaire Lumens: 1656.8 lumens
Efficiency: 87.2%
Efficacy: 11.0 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.06
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '
CIE Type: Direct

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



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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	104	104	104	104	101	101	101	101	97	97	97		93	93	93		89	89	89	87
1	98	95	92	90	96	93	91	88	89	87	86		86	84	83		83	82	81	79
2	91	86	82	78	89	85	81	77	82	78	76		79	76	74		77	74	72	71
3	85	79	73	69	84	77	72	68	75	71	67		73	69	66		71	68	65	64
4	80	72	66	61	78	71	65	61	69	64	60		67	63	60		65	62	59	57
5	75	66	60	55	73	65	59	55	63	58	54		62	57	54		60	56	53	52
6	70	61	54	50	69	60	54	50	59	53	49		57	53	49		56	52	49	47
7	66	56	50	45	65	56	50	45	54	49	45		53	48	45		52	48	45	43
8	62	52	46	42	61	52	46	42	51	45	41		50	45	41		49	44	41	40
9	58	49	42	38	57	48	42	38	47	42	38		46	41	38		45	41	38	36
10	55	45	39	35	54	45	39	35	44	39	35		43	39	35		43	38	35	34

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	109.5	6.6	5.8
10°-20°	298.1	18.0	15.7
20°-30°	408.7	24.7	21.5
30°-40°	392.2	23.7	20.6
40°-50°	247.4	14.9	13.0
50°-60°	121.0	7.3	6.4
60°-70°	60.3	3.6	3.2
70°-80°	17.6	1.1	0.9
80°-90°	2.0	0.1	0.1
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°	816.3	49.3	43.0
0°-40°	1208.5	72.9	63.6
0°-60°	1576.9	95.2	83.0
0°-90°	1656.8	100.0	87.2
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°	1656.8	100.0	87.2

CANDELA DISTRIBUTION:

	0°	Flux
0°	1170	
5°	1161	109
15°	1061	298
25°	893	409
35°	635	392
45°	316	247
55°	131	121
65°	60	60
75°	15	18
85°	1	2
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



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1170
2.5°	1169
5°	1161
7.5°	1144
10°	1119
12.5°	1091
15°	1061
17.5°	1027
20°	989
22.5°	946
25°	893
27.5°	836
30°	775
32.5°	707
35°	635
37.5°	555
40°	473
42.5°	391
45°	316
47.5°	250
50°	199
52.5°	160
55°	131
57.5°	108
60°	90
62.5°	75
65°	60
67.5°	47
70°	35
72.5°	24
75°	15
77.5°	8
80°	5
82.5°	3
85°	1
87.5°	1
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)