

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: P10143

Luminaire Tested: **H2T-21G**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: P10143
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H2T-21G
Description: HALO 11 INCH SQUARE RECESSED DOWNLIGHT
WITH DIFFUSE SQUARE DROP GLASS DIFFUSER
Light Source: MEDIUM BASE A21 INSIDE FROSTED INCANDESCENT LAMP
150A21/MED 150 WATTS
Ballast/Driver: -

Summary

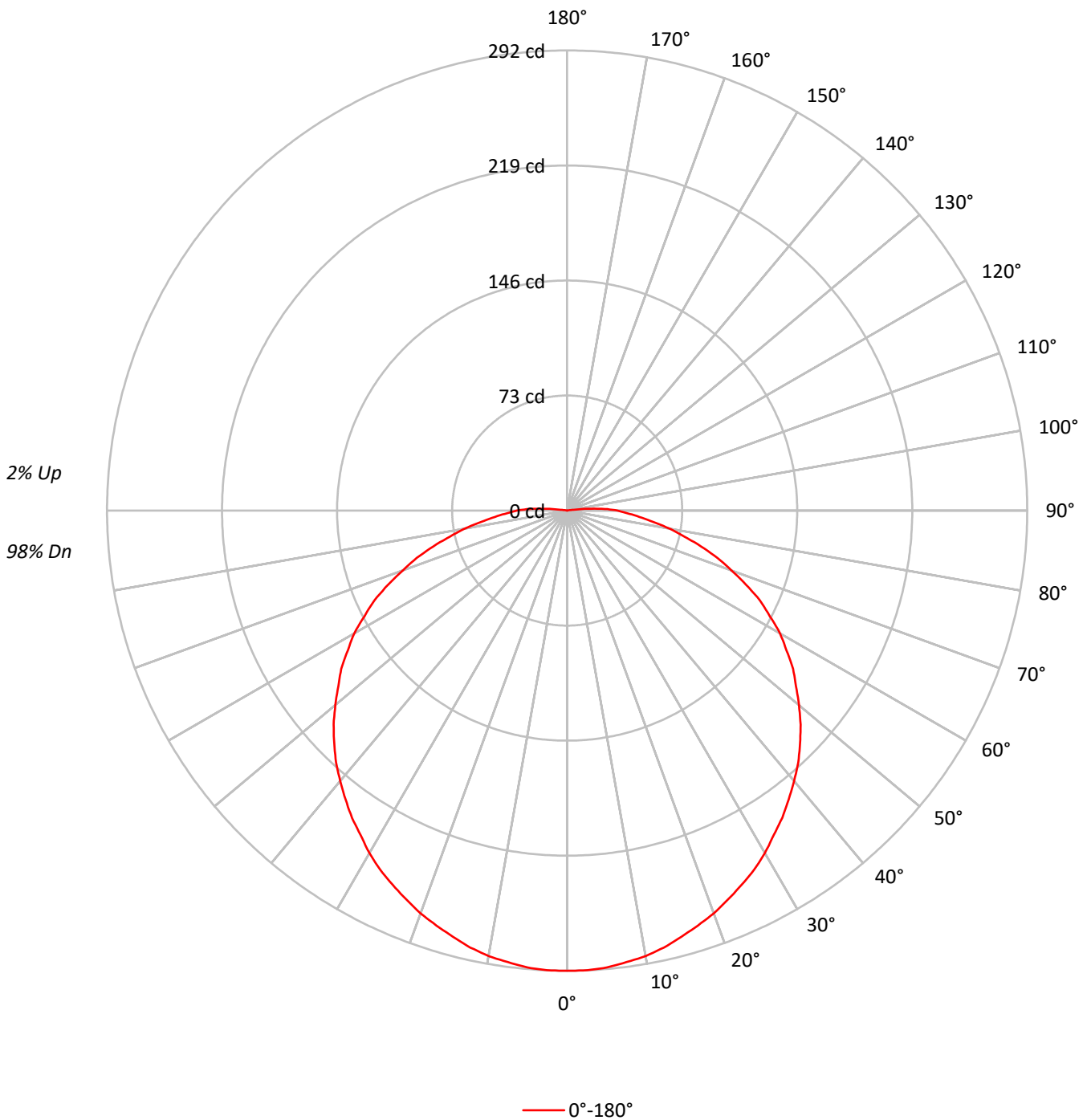
Lumens per Lamp: 2850 (1 lamp)
Luminaire Lumens: 986.7 lumens
Efficiency: 34.6%
Efficacy: 8.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.71' x L: 0.71' x H: 0.08')
CIE Type: Direct

Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): 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	41	41	41	41	40	40	40	40	38	38	38	36	36	36	35	35	35	34
1	37	35	33	32	36	34	32	31	32	31	30	31	30	29	30	29	28	27
2	33	30	27	25	32	29	27	25	28	26	24	27	25	23	26	24	23	22
3	30	26	23	21	29	26	23	20	24	22	20	23	21	19	22	21	19	18
4	27	23	20	17	27	22	19	17	22	19	17	21	18	16	20	18	16	15
5	25	20	17	15	24	20	17	15	19	16	14	18	16	14	18	16	14	13
6	23	18	15	13	22	18	15	13	17	15	12	17	14	12	16	14	12	11
7	21	17	13	11	21	16	13	11	16	13	11	15	13	11	15	12	11	10
8	20	15	12	10	19	15	12	10	14	12	10	14	11	10	13	11	10	9
9	19	14	11	9	18	14	11	9	13	11	9	13	10	9	12	10	9	8
10	17	13	10	8	17	13	10	8	12	10	8	12	9	8	11	9	8	7

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6264
5°	6203
10°	6125
15°	6029
20°	5955
25°	5879
30°	5822
35°	5759
40°	5710
45°	5674
50°	5620
55°	5604
60°	5560
65°	5472
70°	5262
75°	5069
80°	4891
85°	4829



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	27.6	2.8	1.0
10°-20°	79.1	8.0	2.8
20°-30°	120.9	12.3	4.2
30°-40°	149.0	15.1	5.2
40°-50°	161.3	16.3	5.7
50°-60°	156.0	15.8	5.5
60°-70°	132.9	13.5	4.7
70°-80°	93.0	9.4	3.3
80°-90°	51.2	5.2	1.8
90°-100°	15.6	1.6	0.5
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°	227.7	23.1	8.0
0°-40°	376.6	38.2	13.2
0°-60°	694.0	70.3	24.4
0°-90°	971.1	98.4	34.1
90°-120°	15.6	1.6	0.5
90°-150°	15.6	1.6	0.5
90°-180°	16.0	1.6	0.6
0°-180°	986.7	100.0	34.6

CANDELA DISTRIBUTION:

	0°	Flux
0°	292	
5°	291	28
15°	280	79
25°	262	121
35°	238	149
45°	209	161
55°	175	156
65°	135	133
75°	88	93
85°	46	42
90°	32	17
95°	13	8
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°	292
2.5°	292
5°	291
7.5°	289
10°	287
12.5°	284
15°	280
17.5°	276
20°	272
22.5°	267
25°	262
27.5°	257
30°	251
32.5°	244
35°	238
37.5°	231
40°	224
42.5°	217
45°	209
47.5°	201
50°	192
52.5°	183
55°	175
57.5°	165
60°	156
62.5°	145
65°	135
67.5°	123
70°	111
72.5°	100
75°	88
77.5°	76
80°	66
82.5°	55
85°	46
87.5°	38
90°	32
92.5°	24
95°	13
97.5°	4
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)