

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: H35100

Luminaire Tested: **H7T-30WAT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: H35100
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7T-30WAT
Description: HALO 7" DIA RECESSED DOWNLIGHT
SPECULAR REFLECTOR WITH WHITE BAFFLE
Light Source: 100A19/IF 100 WATTS 1720 LUMENS
A19 INSIDE FROSTED
Ballast/Driver: -

Summary

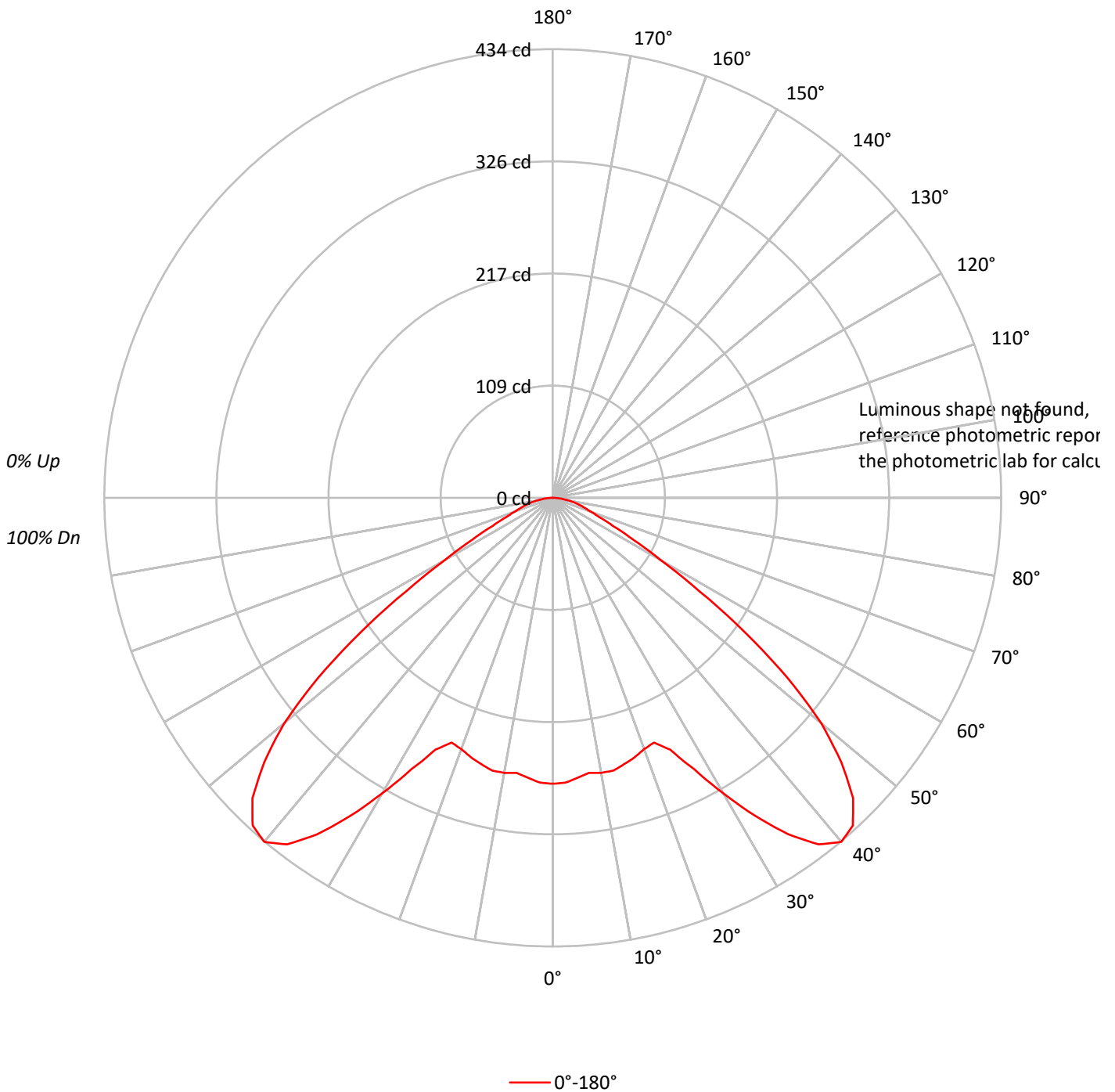
Lumens per Lamp: 1720 (1 lamp)
Luminaire Lumens: 1096.7 lumens
Efficiency: 63.8%
Efficacy: 11.0 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 2.04 / 1.81
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 100
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	76	76	76	76	74	74	74	74	71	71	71	68	68	68	65	65	65	64
1	70	67	65	63	68	66	64	62	63	62	60	61	59	58	59	57	56	55
2	64	59	55	52	63	58	55	51	56	53	50	54	51	49	52	50	48	47
3	59	52	47	44	57	51	47	43	49	46	42	48	44	42	46	43	41	40
4	54	46	41	37	52	45	40	36	44	39	36	42	39	36	41	38	35	34
5	49	41	35	31	48	40	35	31	39	34	31	38	34	30	37	33	30	29
6	45	37	31	27	44	36	31	27	35	30	27	34	30	26	33	29	26	25
7	42	33	27	23	40	32	27	23	31	27	23	30	26	23	30	26	23	22
8	38	30	24	21	37	29	24	20	28	24	20	28	23	20	27	23	20	19
9	36	27	22	18	35	27	22	18	26	21	18	25	21	18	25	21	18	17
10	33	25	20	16	32	24	19	16	24	19	16	23	19	16	22	19	16	15

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	25.9	2.4	1.5
10°-20°	75.3	6.9	4.4
20°-30°	130.1	11.9	7.6
30°-40°	247.4	22.6	14.4
40°-50°	310.0	28.3	18.0
50°-60°	202.8	18.5	11.8
60°-70°	69.1	6.3	4.0
70°-80°	28.6	2.6	1.7
80°-90°	7.5	0.7	0.4
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°	231.2	21.1	13.4
0°-40°	478.6	43.6	27.8
0°-60°	991.4	90.4	57.6
0°-90°	1096.7	100.0	63.8
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°	1096.7	100.0	63.8

CANDELA DISTRIBUTION:

	0°	Flux
0°	277	
5°	272	26
15°	267	75
25°	269	130
35°	397	247
45°	411	310
55°	228	203
65°	64	69
75°	27	29
85°	6	7
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°	276.6
2.5°	275.9
5°	272.0
7.5°	268.3
10°	270.1
12.5°	270.3
15°	266.8
17.5°	263.2
20°	258.6
22.5°	256.2
25°	268.7
27.5°	296.0
30°	330.1
32.5°	364.9
35°	397.3
37.5°	422.5
40°	434.4
42.5°	429.8
45°	410.9
47.5°	378.8
50°	339.3
52.5°	286.6
55°	227.7
57.5°	168.6
60°	120.7
62.5°	88.0
65°	64.1
67.5°	48.6
70°	39.0
72.5°	32.5
75°	27.1
77.5°	21.5
80°	15.9
82.5°	10.9
85°	6.4
87.5°	2.5
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)