

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: 267p134

Luminaire Tested: **H247ICAT-498P**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 267p134  
Test Lab: METALUX LABORATORIES  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H247ICAT-498P  
Description: 6" OPEN RECESSED DOWNLIGHT, SLOPED HOUSING WITH BLACK BAFFLE,  
SPECULAR CONE REFLECTOR  
Light Source: ONE - CF26TTT/E/841 - 1800 LUMENS - 26 WATTS  
Ballast/Driver: RCF-2S26-M1-LS-QS

**Summary**

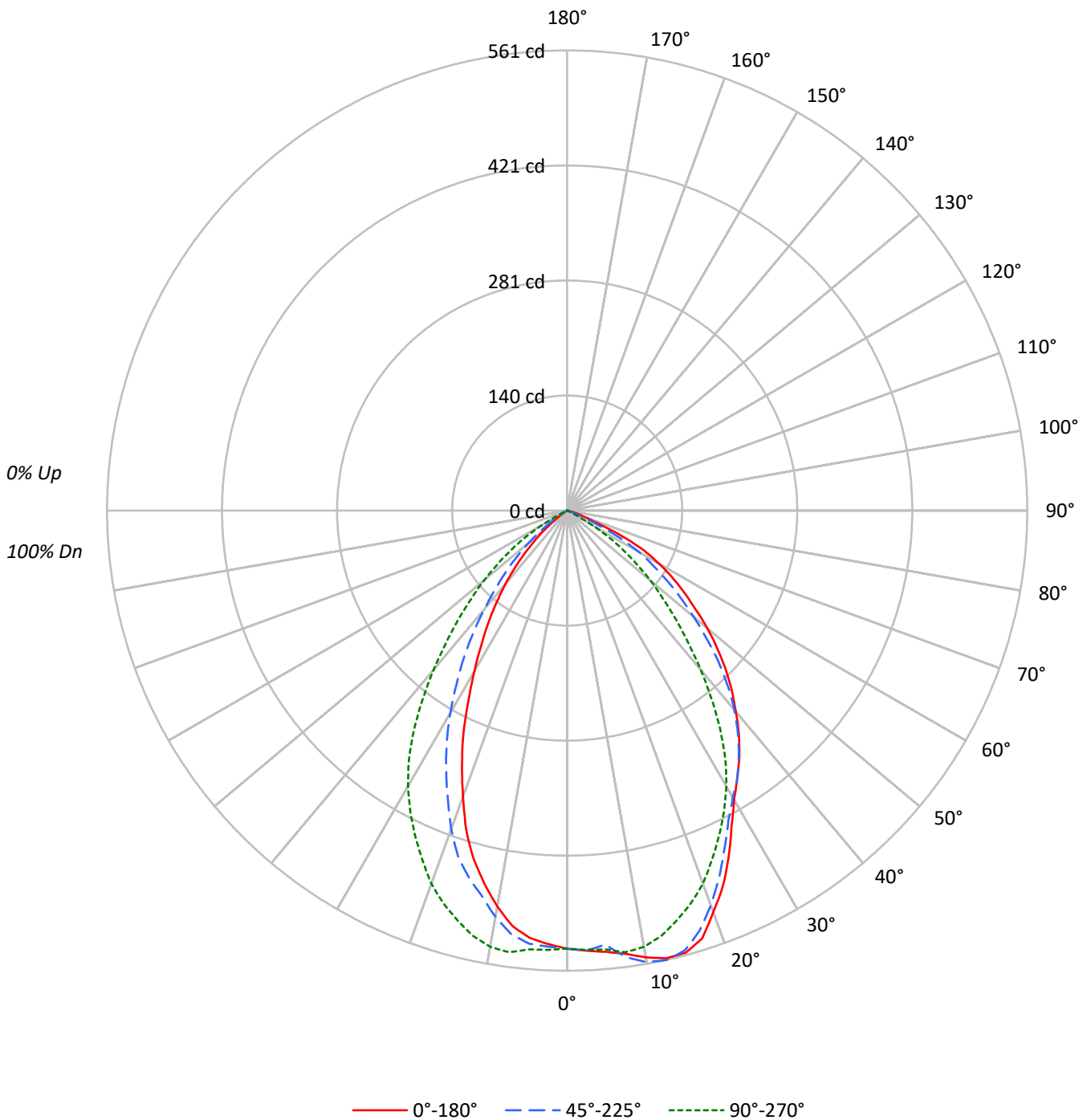
Lumens per Lamp: 1800 (1 lamp)  
Luminaire Lumens: 804.9 lumens  
Efficiency: 44.7%  
Efficacy: 33.5 lumens/watt  
Spacing Criteria (0/90/45): 0.98 / 1.11 / 1.09  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 24  
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



TEST NUMBER: 267p134  
CATALOG NUMBER: H247ICAT-498P

### Luminous Intensity Polar Plot





TEST NUMBER: 267p134

CATALOG NUMBER: H247ICAT-498P

**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	53	53	53	53	52	52	52	52	50	50	50	48	48	48	46	46	46	45
1	50	49	47	46	49	48	46	45	46	45	44	44	43	43	43	42	41	41
2	47	44	42	40	46	43	41	40	42	40	39	41	39	38	39	38	37	36
3	44	40	37	35	43	40	37	35	38	36	34	37	35	34	36	35	33	33
4	41	37	34	31	40	36	33	31	35	33	31	34	32	30	33	31	30	29
5	38	34	30	28	37	33	30	28	32	30	28	31	29	27	31	29	27	26
6	36	31	28	25	35	30	27	25	30	27	25	29	27	25	28	26	25	24
7	33	28	25	23	33	28	25	23	28	25	23	27	24	23	26	24	22	22
8	31	26	23	21	31	26	23	21	26	23	21	25	23	21	25	22	21	20
9	30	24	21	19	29	24	21	19	24	21	19	23	21	19	23	21	19	18
10	28	23	20	18	27	23	20	18	22	20	18	22	19	18	21	19	18	17

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

	0°	90°	180°
0°	42154	42154	42154
5°	42791	42553	41444
10°	44328	43286	39278
15°	45603	42252	35959
20°	43768	40659	31167
25°	40589	38151	26043
30°	37099	35367	20601
35°	35271	31320	16190
40°	32976	26072	12057
45°	30478	20877	7926
50°	27387	16211	4176
55°	23947	11286	963
60°	20367	5368	0
65°	13822	747	0
70°	5078	231	0
75°	2745	0	0
80°	909	0	0
85°	906	0	0



TEST NUMBER: 267p134

CATALOG NUMBER: H2471CAT-498P

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	50.9	6.3	2.8
10°-20°	142.1	17.7	7.9
20°-30°	186.5	23.2	10.4
30°-40°	182.5	22.7	10.1
40°-50°	139.5	17.3	7.7
50°-60°	78.2	9.7	4.3
60°-70°	22.8	2.8	1.3
70°-80°	2.1	0.3	0.1
80°-90°	0.3	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°	379.5	47.1	21.1
0°-40°	562.0	69.8	31.2
0°-60°	779.7	96.9	43.3
0°-90°	804.9	100.0	44.7
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°	804.9	100.0	44.7

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	534	534	534	534	534	
5°	540	531	537	530	523	52
15°	558	555	517	463	440	156
25°	466	454	438	349	299	214
35°	366	365	325	220	168	228
45°	273	261	187	105	71	210
55°	174	148	82	24	7	156
65°	74	42	4	0	0	72
75°	9	2	0	0	0	10
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: 267p134

CATALOG NUMBER: H2471CAT-498P

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	534	534	534	534	534	534	534	534	534
2.5°	537	537	537	537	536	534	532	530	529
5°	540	533	531	538	537	534	530	525	523
7.5°	545	550	549	544	543	527	521	516	511
10°	553	555	559	548	540	519	503	499	490
12.5°	559	558	561	551	531	499	481	479	466
15°	558	561	555	540	517	476	463	460	440
17.5°	547	557	537	519	502	454	442	435	409
20°	521	541	512	494	484	429	413	401	371
22.5°	496	521	484	464	461	397	380	365	335
25°	466	495	454	436	438	367	349	329	299
27.5°	434	465	426	410	414	337	318	293	260
30°	407	443	404	385	388	307	285	257	226
32.5°	386	423	386	360	359	275	251	222	195
35°	366	403	365	335	325	244	220	189	168
37.5°	344	379	342	307	289	213	188	157	141
40°	320	350	317	278	253	184	157	129	117
42.5°	297	321	290	248	218	157	129	104	94
45°	273	291	261	218	187	131	105	81	71
47.5°	248	261	230	189	158	108	82	60	51
50°	223	230	201	162	132	87	60	41	34
52.5°	197	201	174	138	106	67	41	23	18
55°	174	173	148	115	82	47	24	10	7
57.5°	152	148	124	94	60	27	11	2	0
60°	129	124	101	71	34	11	3	0	0
62.5°	106	97	74	43	11	4	0	0	0
65°	74	63	42	16	4	1	0	0	0
67.5°	38	33	18	4	1	0	0	0	0
70°	22	18	8	2	1	0	0	0	0
72.5°	15	11	3	1	1	0	0	0	0
75°	9	5	2	1	0	0	0	0	0
77.5°	3	2	1	1	0	0	0	0	0
80°	2	1	1	1	0	0	0	0	0
82.5°	1	1	1	0	0	0	0	0	0
85°	1	1	1	0	0	0	0	0	0
87.5°	1	1	1	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)