

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: 267P138

Luminaire Tested: **H247ICAT-498P-42CF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 267P138
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H247ICAT-498P-42CF
Description: 6" OPEN RECESSED DOWNLIGHT, SLOPED HOUSING WITH BLACK BAFFLE,
SPECULAR CONE REFLECTOR
Light Source: ONE - CF42TTT/E/841 - 3200 LUMENS - 42 WATTS
Ballast/Driver: RCF-2S26-M1-LS-QS

Summary

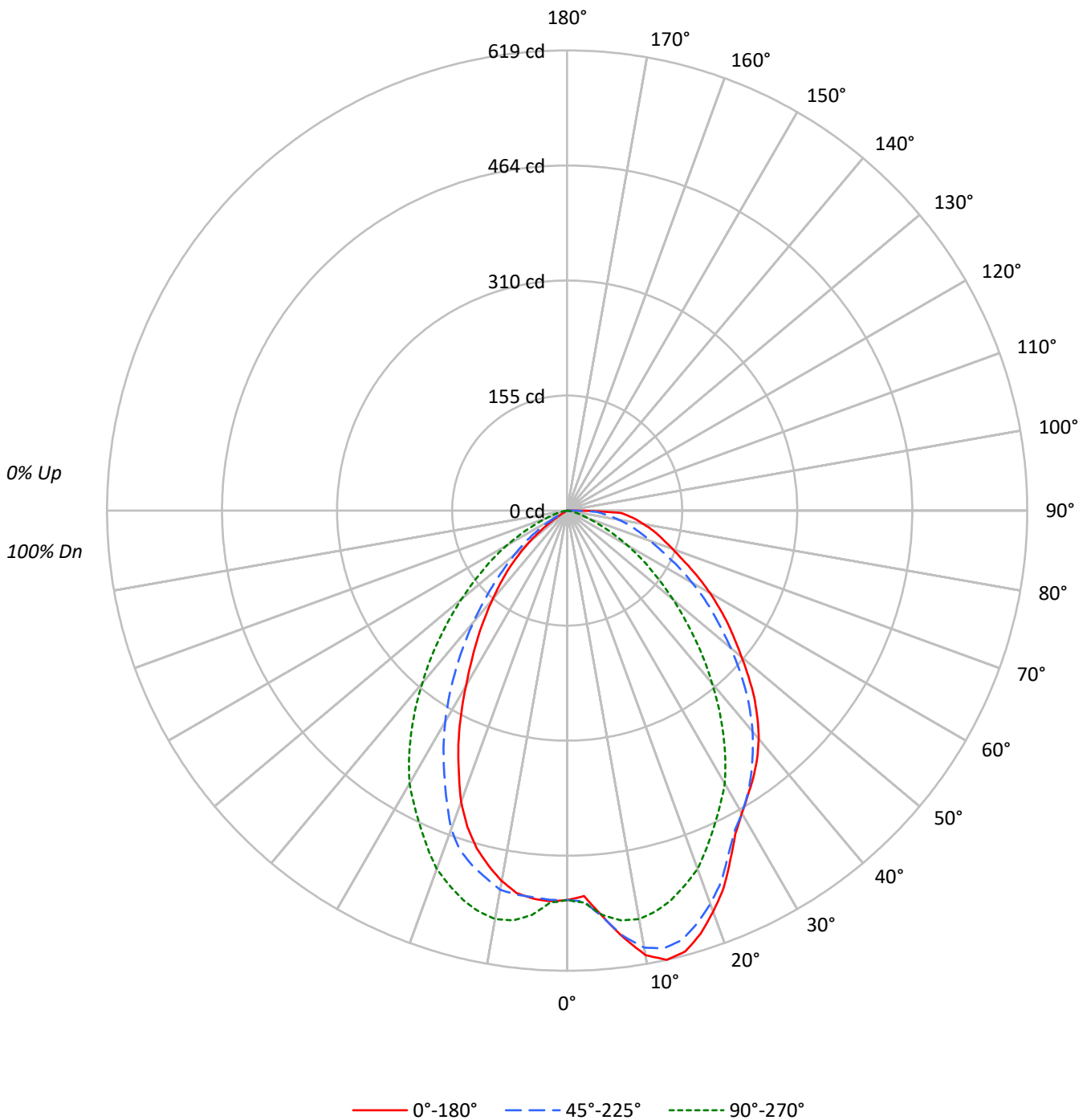
Lumens per Lamp: 3200 (1 lamp)
Luminaire Lumens: 1083.1 lumens
Efficiency: 33.8%
Efficacy: 29.3 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.2 / 1.2
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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	40	40	40	40	39	39	39	39	38	38	38	36	36	36	35	35	35	34
1	37	36	35	33	36	35	34	33	34	33	32	32	32	31	31	30	30	29
2	34	32	30	28	33	31	29	28	30	29	27	29	28	27	28	27	26	25
3	32	29	26	24	31	28	26	24	27	25	23	26	24	23	25	24	23	22
4	29	26	23	21	29	25	23	21	24	22	21	24	22	20	23	21	20	19
5	27	23	21	19	27	23	20	18	22	20	18	22	20	18	21	19	18	17
6	25	21	18	17	25	21	18	16	20	18	16	20	18	16	19	17	16	15
7	24	19	17	15	23	19	17	15	19	16	15	18	16	15	18	16	15	14
8	22	18	15	13	22	18	15	13	17	15	13	17	15	13	16	15	13	13
9	21	17	14	12	20	16	14	12	16	14	12	16	14	12	15	13	12	11
10	20	15	13	11	19	15	13	11	15	13	11	15	13	11	14	12	11	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	41365	41365	41365
5°	43425	43266	41523
10°	48656	44729	40560
15°	50180	44295	38411
20°	48220	43096	35031
25°	45206	40764	30137
30°	42842	38649	24794
35°	42113	35271	20238
40°	41323	31224	16076
45°	39744	27017	12392
50°	37580	22843	8351
55°	36197	18718	3991
60°	35050	14841	0
65°	34183	10460	0
70°	34852	6924	0
75°	38736	4270	0
80°	47279	1818	0
85°	75177	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	52.0	4.8	1.6
10°-20°	152.3	14.1	4.8
20°-30°	207.5	19.2	6.5
30°-40°	215.1	19.9	6.7
40°-50°	183.1	16.9	5.7
50°-60°	128.7	11.9	4.0
60°-70°	76.2	7.0	2.4
70°-80°	45.5	4.2	1.4
80°-90°	22.7	2.1	0.7
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°	411.7	38.0	12.9
0°-40°	626.9	57.9	19.6
0°-60°	938.7	86.7	29.3
0°-90°	1083.1	100.0	33.8
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°	1083.1	100.0	33.8

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	524	524	524	524	524	
5°	548	549	546	522	524	54
15°	614	598	542	494	470	171
25°	519	512	468	391	346	239
35°	437	432	366	261	210	273
45°	356	339	242	139	111	274
55°	263	239	136	55	29	235
65°	183	152	56	0	0	182
75°	127	94	14	0	0	134
85°	83	48	0	0	0	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	524	524	524	524	524	524	524	524	524
2.5°	519	521	526	529	528	524	524	525	526
5°	548	551	549	546	546	536	522	522	524
7.5°	579	579	577	564	556	542	521	517	519
10°	607	602	597	577	558	537	518	507	506
12.5°	619	614	603	583	552	526	506	494	489
15°	614	612	598	578	542	508	494	482	470
17.5°	597	598	582	563	528	489	479	466	446
20°	574	580	563	542	513	467	456	441	417
22.5°	550	560	541	515	491	438	423	408	381
25°	519	531	512	487	468	407	391	377	346
27.5°	490	503	487	465	446	379	360	343	309
30°	470	483	470	446	424	351	328	308	272
32.5°	453	465	452	424	396	321	295	272	239
35°	437	447	432	400	366	292	261	238	210
37.5°	420	426	410	374	335	263	228	205	182
40°	401	403	388	347	303	234	196	173	156
42.5°	379	380	364	320	273	206	166	144	133
45°	356	355	339	293	242	179	139	118	111
47.5°	331	330	313	265	213	154	114	95	89
50°	306	304	287	239	186	130	93	74	68
52.5°	284	281	262	215	160	108	73	53	47
55°	263	259	239	192	136	87	55	34	29
57.5°	242	237	217	170	115	68	35	17	11
60°	222	216	194	148	94	50	18	2	0
62.5°	202	196	173	128	74	33	5	0	0
65°	183	176	152	108	56	18	0	0	0
67.5°	165	159	134	91	41	8	0	0	0
70°	151	144	119	76	30	3	0	0	0
72.5°	138	131	106	63	21	0	0	0	0
75°	127	120	94	51	14	0	0	0	0
77.5°	116	108	82	40	8	0	0	0	0
80°	104	97	70	31	4	0	0	0	0
82.5°	94	85	59	22	1	0	0	0	0
85°	83	74	48	14	0	0	0	0	0
87.5°	72	63	39	9	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)