

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: 267P137

Luminaire Tested: **H248ICAT-496W-42CF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 267P137
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H248ICAT-496W-42CF
Description: 6" OPEN RECESSED DOWNLIGHT, SLOPED HOUSING WITH WHITE BAFFLE,
SPECULAR CONE REFLECTOR
Light Source: ONE - CF42TTT/E/841 - 3200 LUMENS - 42 WATTS
Ballast/Driver: RCF-2S26-M1-LS-QS

Summary

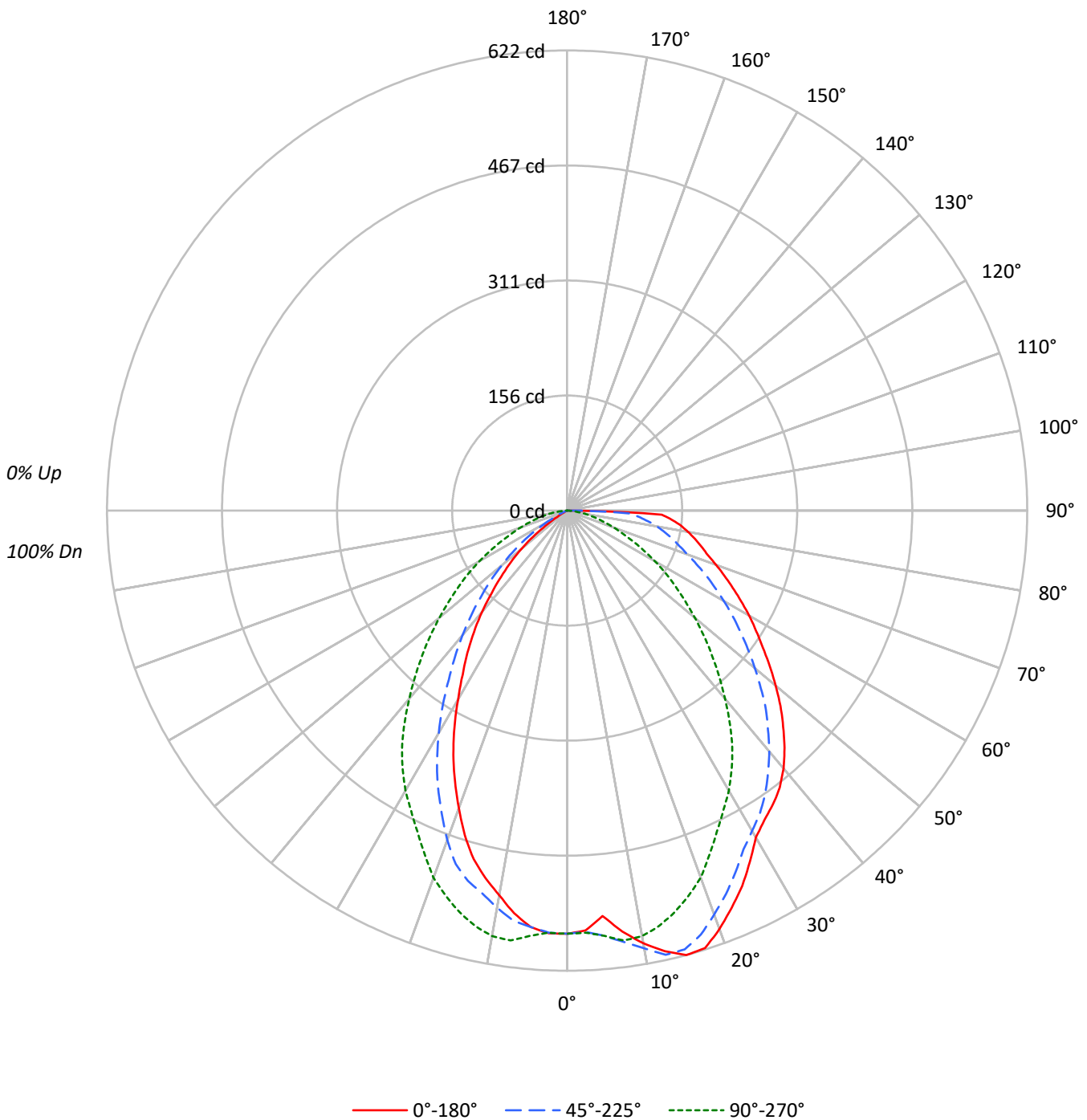
Lumens per Lamp: 3200 (1 lamp)
Luminaire Lumens: 1264.3 lumens
Efficiency: 39.5%
Efficacy: 35.1 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 36
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	50	30	10	
RCR																					
0	47	47	47	47	46	46	46	46	44	44	44	42	42	42	40	40	40	40	40	40	
1	43	41	39	38	42	40	39	37	39	37	36	37	36	35	36	35	34	36	35	34	
2	39	36	34	32	38	36	33	31	34	32	30	33	31	30	32	30	29	32	30	29	
3	36	32	29	27	35	32	29	26	30	28	26	29	27	26	28	27	25	28	27	25	
4	33	29	26	23	33	28	25	23	27	25	23	27	24	22	26	24	22	26	24	22	
5	31	26	23	20	30	26	22	20	25	22	20	24	22	20	23	21	19	23	21	19	
6	29	24	20	18	28	23	20	18	23	20	18	22	19	18	21	19	17	21	19	17	
7	27	22	18	16	26	21	18	16	21	18	16	20	18	16	20	17	16	20	17	16	
8	25	20	17	14	24	20	17	14	19	16	14	19	16	14	18	16	14	18	16	14	
9	23	18	15	13	23	18	15	13	18	15	13	17	15	13	17	15	13	17	15	13	
10	22	17	14	12	22	17	14	12	16	14	12	16	14	12	16	13	12	16	13	12	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	45154	45154	45154
5°	43583	45723	44772
10°	47614	46813	42324
15°	50833	45930	39882
20°	50572	44356	35955
25°	48777	41722	31705
30°	46488	39834	26890
35°	46739	37488	22647
40°	46888	34213	18446
45°	46107	30924	14067
50°	45194	27632	9948
55°	44454	24636	4955
60°	44838	21630	474
65°	46137	18305	0
70°	49393	15464	0
75°	57341	13115	0
80°	75464	10910	0
85°	128616	7246	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	54.6	4.3	1.7
10°-20°	157.1	12.4	4.9
20°-30°	217.7	17.2	6.8
30°-40°	233.5	18.5	7.3
40°-50°	210.9	16.7	6.6
50°-60°	161.3	12.8	5.0
60°-70°	110.0	8.7	3.4
70°-80°	75.2	5.9	2.3
80°-90°	44.1	3.5	1.4
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°	429.4	34.0	13.4
0°-40°	662.8	52.4	20.7
0°-60°	1035.1	81.9	32.3
0°-90°	1264.3	100.0	39.5
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°	1264.3	100.0	39.5

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	572	572	572	572	572	
5°	550	577	577	565	565	55
15°	622	614	562	518	488	174
25°	560	539	479	413	364	257
35°	485	467	389	279	235	303
45°	413	380	277	165	126	319
55°	323	286	179	73	36	290
65°	247	207	98	9	0	245
75°	188	147	43	0	0	199
85°	142	97	8	0	0	138
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°	572	572	572	572	572	572	572	572	572
2.5°	568	569	570	571	571	571	571	573	572
5°	550	565	577	581	577	573	565	565	565
7.5°	574	581	588	591	586	569	559	552	549
10°	594	595	601	597	584	562	545	535	528
12.5°	610	609	615	600	575	546	530	521	509
15°	622	621	614	592	562	526	518	505	488
17.5°	620	619	601	580	546	508	501	480	460
20°	602	602	581	562	528	484	474	451	428
22.5°	581	582	561	542	503	456	443	420	396
25°	560	562	539	518	479	430	413	388	364
27.5°	535	536	516	493	457	406	381	353	330
30°	510	514	500	474	437	382	347	318	295
32.5°	496	501	485	453	414	354	313	284	263
35°	485	489	467	432	389	325	279	252	235
37.5°	472	473	446	409	361	295	249	221	207
40°	455	453	425	385	332	267	220	192	179
42.5°	435	432	402	360	304	241	192	163	151
45°	413	410	380	334	277	215	165	137	126
47.5°	391	387	355	309	251	189	140	112	103
50°	368	362	331	284	225	165	116	89	81
52.5°	345	338	308	260	201	142	94	67	58
55°	323	316	286	239	179	120	73	45	36
57.5°	303	295	265	219	158	98	53	25	16
60°	284	276	245	199	137	77	33	8	3
62.5°	265	256	225	179	117	59	18	2	0
65°	247	238	207	161	98	43	9	0	0
67.5°	230	220	189	142	81	31	2	0	0
70°	214	204	173	126	67	21	0	0	0
72.5°	199	190	159	112	54	12	0	0	0
75°	188	177	147	98	43	5	0	0	0
77.5°	177	167	135	85	33	1	0	0	0
80°	166	156	123	72	24	0	0	0	0
82.5°	155	144	110	60	15	0	0	0	0
85°	142	130	97	48	8	0	0	0	0
87.5°	128	117	84	38	3	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)