

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: 267p133

Luminaire Tested: **H247ICAT-496W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 267p133
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H247ICAT-496W
Description: 6" OPEN RECESSED DOWNLIGHT, SLOPED HOUSING WITH WHITE BAFFLE,
SPECULAR CONE REFLECTOR
Light Source: ONE - CF26TTT/E/841 - 1800 LUMENS - 26 WATTS
Ballast/Driver: RCF-2S26-M1-LS-QS

Summary

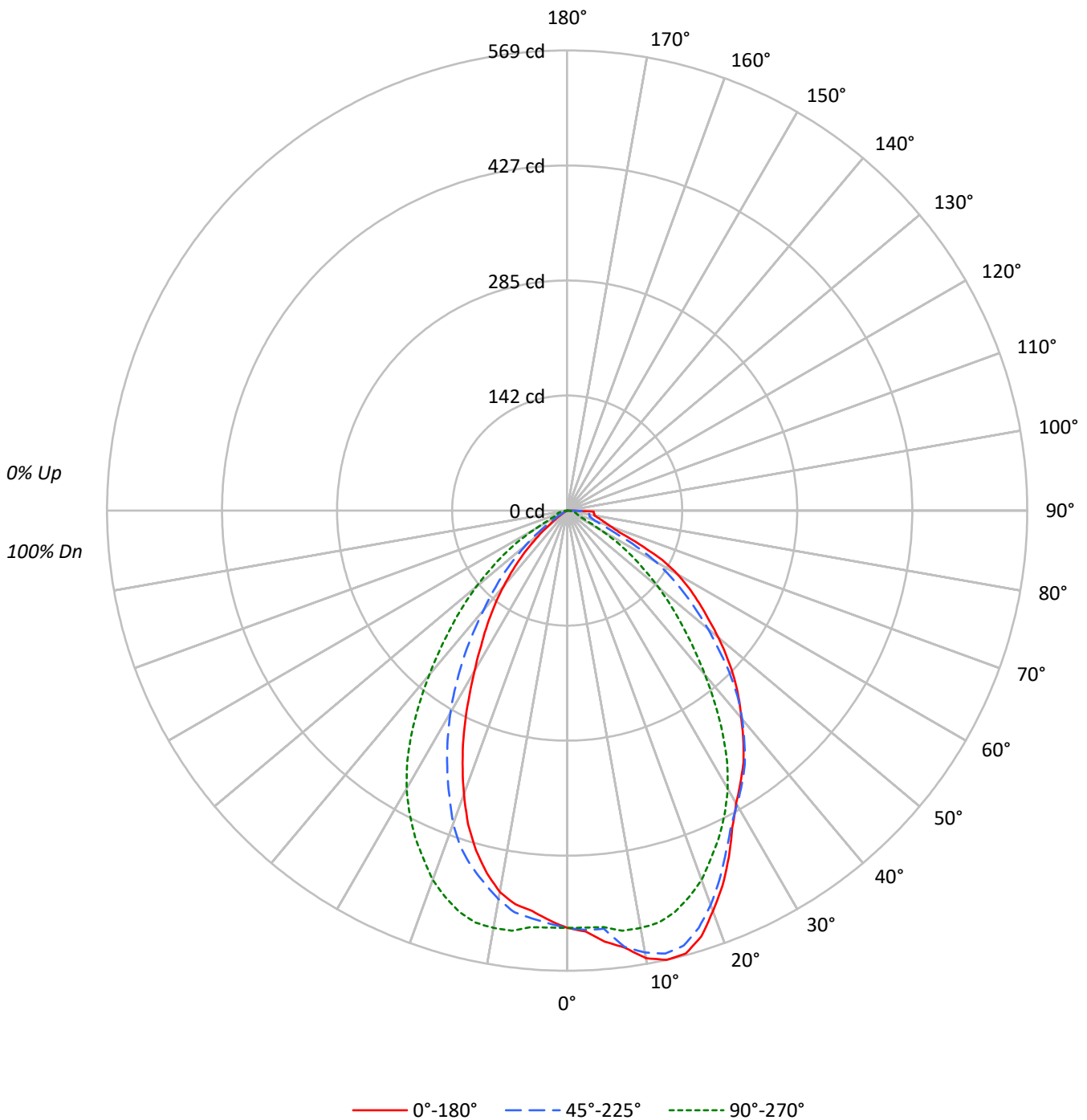
Lumens per Lamp: 1800 (1 lamp)
Luminaire Lumens: 874.9 lumens
Efficiency: 48.6%
Efficacy: 36.5 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.15 / 1.12
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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



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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	58	58	58	58	57	57	57	57	54	54	54	52	52	52	50	50	50	49
1	54	52	51	49	53	51	50	48	49	48	47	47	46	45	46	45	44	43
2	50	47	44	42	49	46	44	42	45	43	41	43	41	40	42	40	39	38
3	47	43	39	37	46	42	39	36	40	38	36	39	37	35	38	36	35	34
4	43	39	35	32	42	38	35	32	37	34	32	36	33	31	35	33	31	30
5	41	35	32	29	40	35	31	29	34	31	28	33	30	28	32	30	28	27
6	38	32	29	26	37	32	28	26	31	28	26	30	28	25	30	27	25	24
7	35	30	26	23	35	29	26	23	29	26	23	28	25	23	27	25	23	22
8	33	27	24	21	33	27	24	21	27	23	21	26	23	21	25	23	21	20
9	31	25	22	20	31	25	22	20	25	22	19	24	21	19	24	21	19	18
10	29	24	20	18	29	23	20	18	23	20	18	23	20	18	22	20	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	40734	40734	40734
5°	42395	40968	39384
10°	45049	42003	38396
15°	46338	42007	35551
20°	44272	40827	31335
25°	41199	38760	26305
30°	38102	36188	20874
35°	36620	32284	16575
40°	34522	27308	12572
45°	32599	22551	8596
50°	29966	18053	4544
55°	27388	13350	1239
60°	24945	7578	0
65°	18305	3362	0
70°	13156	3001	0
75°	13115	3355	0
80°	15456	3182	0
85°	29890	2717	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	49.5	5.7	2.8
10°-20°	141.6	16.2	7.9
20°-30°	189.2	21.6	10.5
30°-40°	188.6	21.6	10.5
40°-50°	149.9	17.1	8.3
50°-60°	91.7	10.5	5.1
60°-70°	36.7	4.2	2.0
70°-80°	16.6	1.9	0.9
80°-90°	11.2	1.3	0.6
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°	380.2	43.5	21.1
0°-40°	568.9	65.0	31.6
0°-60°	810.5	92.6	45.0
0°-90°	874.9	100.0	48.6
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°	874.9	100.0	48.6

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	516	516	516	516	516	
5°	535	519	517	506	497	52
15°	567	557	514	456	435	158
25°	473	465	445	351	302	217
35°	380	383	335	224	172	237
45°	292	284	202	112	77	224
55°	199	175	97	30	9	178
65°	98	65	18	1	0	100
75°	43	29	11	0	0	46
85°	33	26	3	0	0	32
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°	516	516	516	516	516	516	516	516	516
2.5°	521	520	519	518	516	513	511	509	507
5°	535	530	519	519	517	512	506	500	497
7.5°	545	549	544	529	524	506	501	495	491
10°	562	560	555	540	524	504	488	484	479
12.5°	569	567	561	543	522	489	472	469	459
15°	567	572	557	534	514	471	456	451	435
17.5°	552	564	541	517	501	453	437	427	407
20°	527	548	519	495	486	430	412	398	373
22.5°	502	529	493	469	465	401	381	364	338
25°	473	503	465	444	445	373	351	329	302
27.5°	442	474	439	421	422	345	320	293	264
30°	418	454	420	397	397	315	289	258	229
32.5°	399	437	402	373	368	283	256	223	198
35°	380	417	383	348	335	251	224	190	172
37.5°	358	393	360	321	300	221	191	159	147
40°	335	365	337	294	265	193	161	133	122
42.5°	314	339	312	265	232	166	135	109	99
45°	292	311	284	237	202	140	112	86	77
47.5°	268	282	254	209	174	118	88	64	55
50°	244	254	227	183	147	97	66	45	37
52.5°	220	227	200	158	120	76	47	27	21
55°	199	201	175	135	97	56	30	13	9
57.5°	179	178	151	114	74	37	17	5	1
60°	158	153	127	91	48	21	8	1	0
62.5°	133	124	97	61	26	12	3	0	0
65°	98	89	65	37	18	8	1	0	0
67.5°	69	63	47	26	15	6	0	0	0
70°	57	52	37	24	13	5	0	0	0
72.5°	49	45	32	22	12	3	0	0	0
75°	43	39	29	21	11	1	0	0	0
77.5°	38	34	28	20	9	0	0	0	0
80°	34	32	28	19	7	0	0	0	0
82.5°	34	32	27	17	5	0	0	0	0
85°	33	32	26	15	3	0	0	0	0
87.5°	33	31	24	13	1	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)