

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: 267P136

Luminaire Tested: **H247ICAT-498W-32CF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 267P136  
Test Lab: METALUX LABORATORIES  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H247ICAT-498W-32CF  
Description: 6" OPEN RECESSED DOWNLIGHT, SLOPED HOUSING WITH BLACK BAFFLE,  
SPECULAR CONE REFLECTOR  
Light Source: ONE - CF32TTT/E/841 - 2600 LUMENS - 32 WATTS  
Ballast/Driver: RCF-2S26-M1-LS-QS

**Summary**

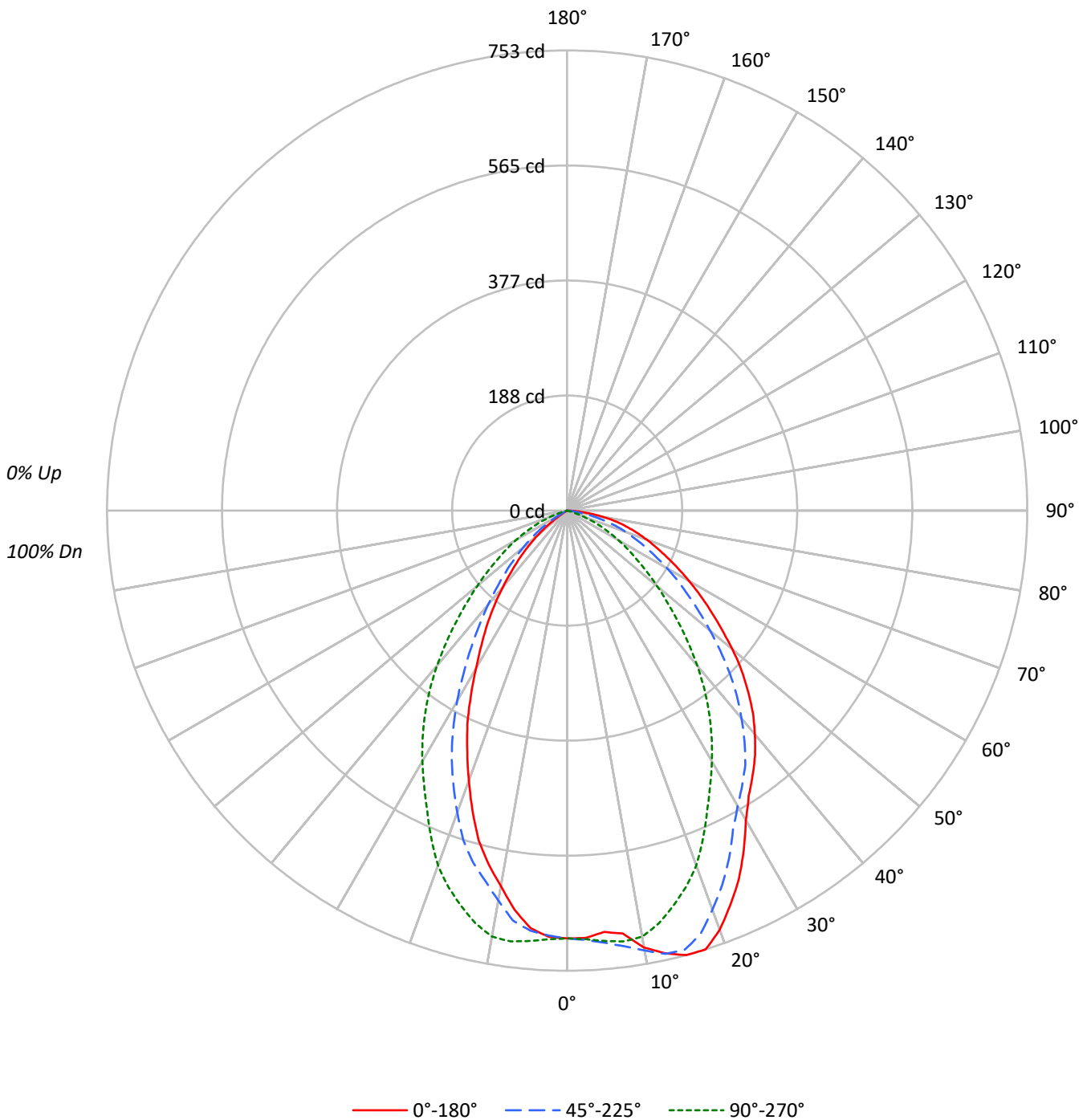
Lumens per Lamp: 2600 (1 lamp)  
Luminaire Lumens: 1185.4 lumens  
Efficiency: 45.6%  
Efficacy: 42.3 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.05 / 1.1  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
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	54	54	54	54	53	53	53	53	51	51	51	49	49	49	47	47	47	46
1	51	49	47	46	49	48	47	45	46	45	44	44	43	43	43	42	41	40
2	47	44	41	39	46	43	41	39	42	40	38	40	39	37	39	37	36	35
3	44	40	36	34	43	39	36	34	38	35	33	36	34	33	35	34	32	31
4	40	36	32	30	39	35	32	30	34	31	29	33	31	29	32	30	29	28
5	38	33	29	26	37	32	29	26	31	28	26	30	28	26	30	27	26	25
6	35	30	26	24	34	29	26	24	29	26	23	28	25	23	27	25	23	22
7	33	27	24	21	32	27	24	21	26	23	21	26	23	21	25	23	21	20
8	31	25	22	19	30	25	22	19	24	21	19	24	21	19	23	21	19	18
9	29	23	20	18	28	23	20	18	23	20	18	22	20	18	22	19	18	17
10	27	22	19	16	27	22	18	16	21	18	16	21	18	16	20	18	16	15

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

	0°	90°	180°
0°	55259	55259	55259
5°	54836	56024	54360
10°	58195	56752	50019
15°	61539	54756	45685
20°	61325	51916	39483
25°	57923	47209	33621
30°	53325	43207	27164
35°	50979	39029	21972
40°	49258	34110	16900
45°	46777	28580	12169
50°	43352	23580	7737
55°	39500	19130	2890
60°	36313	15315	0
65°	33622	11021	0
70°	31851	6001	0
75°	30500	915	0
80°	27276	0	0
85°	19021	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	66.5	5.6	2.6
10°-20°	185.9	15.7	7.2
20°-30°	245.6	20.7	9.4
30°-40°	244.4	20.6	9.4
40°-50°	200.4	16.9	7.7
50°-60°	132.9	11.2	5.1
60°-70°	73.0	6.2	2.8
70°-80°	31.5	2.7	1.2
80°-90°	5.1	0.4	0.2
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°	498.1	42.0	19.2
0°-40°	742.5	62.6	28.6
0°-60°	1075.8	90.8	41.4
0°-90°	1185.4	100.0	45.6
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°	1185.4	100.0	45.6

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	700	700	700	700	700	
5°	692	710	707	690	686	67
15°	753	744	670	596	559	211
25°	665	627	542	447	386	304
35°	529	508	405	274	228	331
45°	419	376	256	142	109	322
55°	287	242	139	53	21	258
65°	180	141	59	0	0	180
75°	100	63	3	0	0	105
85°	21	2	0	0	0	27
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°	700	700	700	700	700	700	700	700	700
2.5°	700	701	703	704	702	697	696	697	698
5°	692	703	710	711	707	701	690	684	686
7.5°	698	713	719	724	711	692	677	665	659
10°	726	726	731	725	708	676	648	636	624
12.5°	742	734	743	729	692	651	620	608	593
15°	753	746	744	714	670	623	596	579	559
17.5°	753	746	726	692	646	594	565	538	515
20°	730	723	695	666	618	556	526	495	470
22.5°	698	694	663	634	581	512	486	454	427
25°	665	665	627	597	542	474	447	411	386
27.5°	626	625	588	560	507	439	404	365	341
30°	585	588	558	528	474	403	360	322	298
32.5°	553	562	533	496	440	365	315	279	261
35°	529	539	508	463	405	326	274	241	228
37.5°	505	513	477	428	369	288	235	207	196
40°	478	481	444	392	331	252	201	175	164
42.5°	450	449	411	356	293	217	169	144	134
45°	419	416	376	318	256	187	142	117	109
47.5°	387	381	340	282	222	159	116	94	86
50°	353	346	305	248	192	136	93	72	63
52.5°	318	310	272	218	164	114	73	49	41
55°	287	279	242	191	139	92	53	29	21
57.5°	258	250	215	166	117	72	33	10	2
60°	230	221	189	142	97	54	15	0	0
62.5°	204	195	164	120	77	36	2	0	0
65°	180	171	141	100	59	18	0	0	0
67.5°	158	149	120	82	42	5	0	0	0
70°	138	129	102	64	26	0	0	0	0
72.5°	119	109	83	47	11	0	0	0	0
75°	100	89	63	29	3	0	0	0	0
77.5°	81	69	43	13	0	0	0	0	0
80°	60	49	24	4	0	0	0	0	0
82.5°	39	29	10	1	0	0	0	0	0
85°	21	13	2	1	0	0	0	0	0
87.5°	10	5	1	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)