

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: 267P135

Luminaire Tested: **H248ICAT-496W-32CF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 267P135
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H248ICAT-496W-32CF
Description: 6" OPEN RECESSED DOWNLIGHT, SLOPED HOUSING WITH WHITE BAFFLE,
SPECULAR CONE REFLECTOR
Light Source: ONE - CF32TTT/E/841 - 2600 LUMENS - 32 WATTS
Ballast/Driver: RCF-2S26-M1-LS-QS

Summary

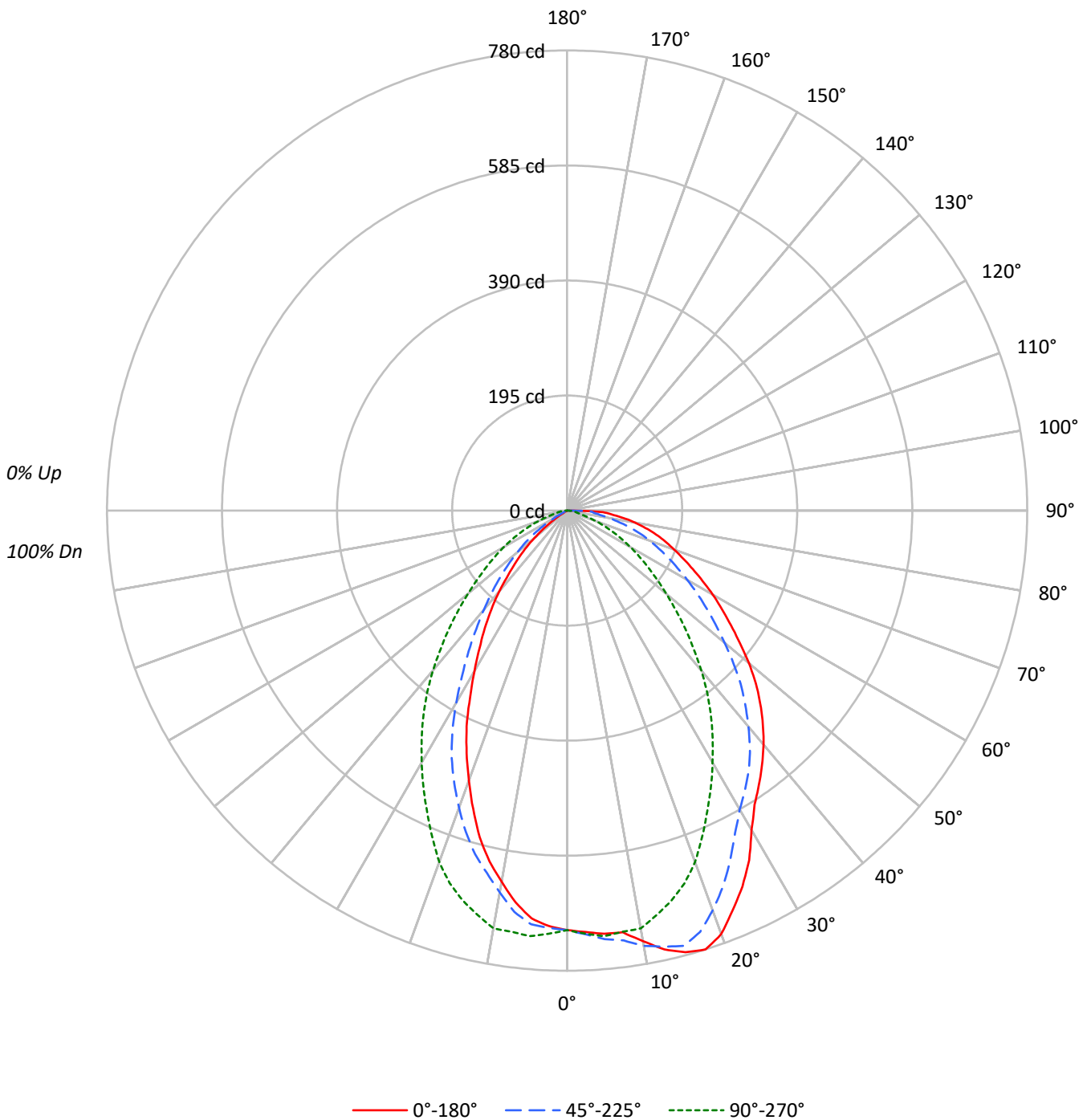
Lumens per Lamp: 2600 (1 lamp)
Luminaire Lumens: 1337.9 lumens
Efficiency: 51.5%
Efficacy: 47.8 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.07 / 1.13
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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



TEST NUMBER: 267P135
CATALOG NUMBER: H248ICAT-496W-32CF

Luminous Intensity Polar Plot





TEST NUMBER: 267P135

CATALOG NUMBER: H248ICAT-496W-32CF

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	61	61	61	61	60	60	60	60	57	57	57	55	55	55	53	53	53	51
1	57	54	53	51	55	53	52	50	51	50	48	49	48	47	47	46	46	45
2	52	49	45	43	51	48	45	42	46	43	41	44	42	40	43	41	40	39
3	48	43	40	37	47	43	39	36	41	38	36	40	37	35	39	36	35	34
4	45	39	35	32	44	38	35	32	37	34	31	36	33	31	35	33	31	30
5	41	35	31	28	40	35	31	28	34	30	28	33	30	28	32	29	27	26
6	39	32	28	25	38	32	28	25	31	28	25	30	27	25	29	27	24	24
7	36	30	26	23	35	29	25	23	29	25	22	28	25	22	27	24	22	21
8	34	27	23	21	33	27	23	21	26	23	20	26	23	20	25	22	20	19
9	32	25	21	19	31	25	21	19	24	21	19	24	21	19	23	21	18	18
10	30	24	20	17	29	23	20	17	23	19	17	22	19	17	22	19	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	56127	56127	56127
5°	57055	57372	54994
10°	59398	57634	51221
15°	63337	55900	46829
20°	64181	53261	40911
25°	61232	48951	35102
30°	56971	44938	28622
35°	54641	40957	23418
40°	53380	36480	18446
45°	51689	31594	13508
50°	49370	26895	8965
55°	46656	22984	3854
60°	44996	19577	158
65°	43896	15877	0
70°	44546	11771	0
75°	47581	7320	0
80°	53189	6819	0
85°	68837	5434	0



TEST NUMBER: 267P135

CATALOG NUMBER: H248ICAT-496W-32CF

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	67.8	5.1	2.6
10°-20°	190.4	14.2	7.3
20°-30°	256.4	19.2	9.9
30°-40°	260.5	19.5	10.0
40°-50°	223.2	16.7	8.6
50°-60°	159.3	11.9	6.1
60°-70°	99.5	7.4	3.8
70°-80°	56.7	4.2	2.2
80°-90°	24.0	1.8	0.9
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°	514.6	38.5	19.8
0°-40°	775.2	57.9	29.8
0°-60°	1157.7	86.5	44.5
0°-90°	1337.9	100.0	51.5
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°	1337.9	100.0	51.5

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	711	711	711	711	711	
5°	720	729	724	704	694	69
15°	775	764	684	603	573	218
25°	703	654	562	463	403	322
35°	567	537	425	291	243	356
45°	463	416	283	161	121	357
55°	339	288	167	67	28	305
65°	235	189	85	4	0	234
75°	156	110	24	0	0	164
85°	76	46	6	0	0	79
90°	0	0	0	0	0	



TEST NUMBER: 267P135

CATALOG NUMBER: H248ICAT-496W-32CF

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	711	711	711	711	711	711	711	711	711
2.5°	715	717	719	720	718	712	708	706	705
5°	720	724	729	729	724	715	704	693	694
7.5°	721	726	735	737	720	704	686	675	670
10°	741	748	749	742	719	686	657	648	639
12.5°	762	757	757	743	702	661	629	622	609
15°	775	765	764	730	684	637	603	590	573
17.5°	780	770	749	708	662	610	571	550	530
20°	764	755	721	682	634	571	536	510	487
22.5°	733	732	690	653	598	530	500	469	445
25°	703	707	654	620	562	492	463	425	403
27.5°	668	672	616	586	528	458	421	379	356
30°	625	633	585	556	493	422	376	335	314
32.5°	591	606	561	525	459	385	331	292	276
35°	567	585	537	493	425	346	291	255	243
37.5°	543	561	509	460	390	307	253	222	211
40°	518	530	478	426	354	272	220	191	179
42.5°	491	497	447	392	317	239	189	160	147
45°	463	464	416	356	283	208	161	132	121
47.5°	434	431	382	322	250	181	135	108	97
50°	402	396	348	289	219	157	111	84	73
52.5°	369	362	317	259	192	134	89	60	49
55°	339	330	288	232	167	111	67	38	28
57.5°	311	301	261	206	145	90	45	17	7
60°	285	273	235	183	124	71	26	4	1
62.5°	259	247	211	161	104	52	11	0	0
65°	235	223	189	141	85	34	4	0	0
67.5°	213	201	168	122	67	19	1	0	0
70°	193	181	149	104	51	11	0	0	0
72.5°	174	162	130	86	35	7	0	0	0
75°	156	143	110	67	24	2	0	0	0
77.5°	136	123	90	50	18	0	0	0	0
80°	117	104	71	37	15	0	0	0	0
82.5°	96	83	56	31	10	0	0	0	0
85°	76	66	46	27	6	0	0	0	0
87.5°	61	55	41	23	2	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)