

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: 267P149

Luminaire Tested: **H578ICAT- 5016W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 267P149  
Test Lab: METALUX RESEARCH LABS  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H578ICAT- 5016W  
Description: OPEN RECESSED WITH WHITE TRIM AND WHITE BAFFLE, UPPER  
SPECULAR CONE IN H57 HOUSING, SOCKET BRACKET IN BOTTOM SLOT.  
Light Source: ONE COMPACT FLUORESCENT ECO TWIST LAMP  
CF28T/827 28 WATTS  
Ballast/Driver: -

**Summary**

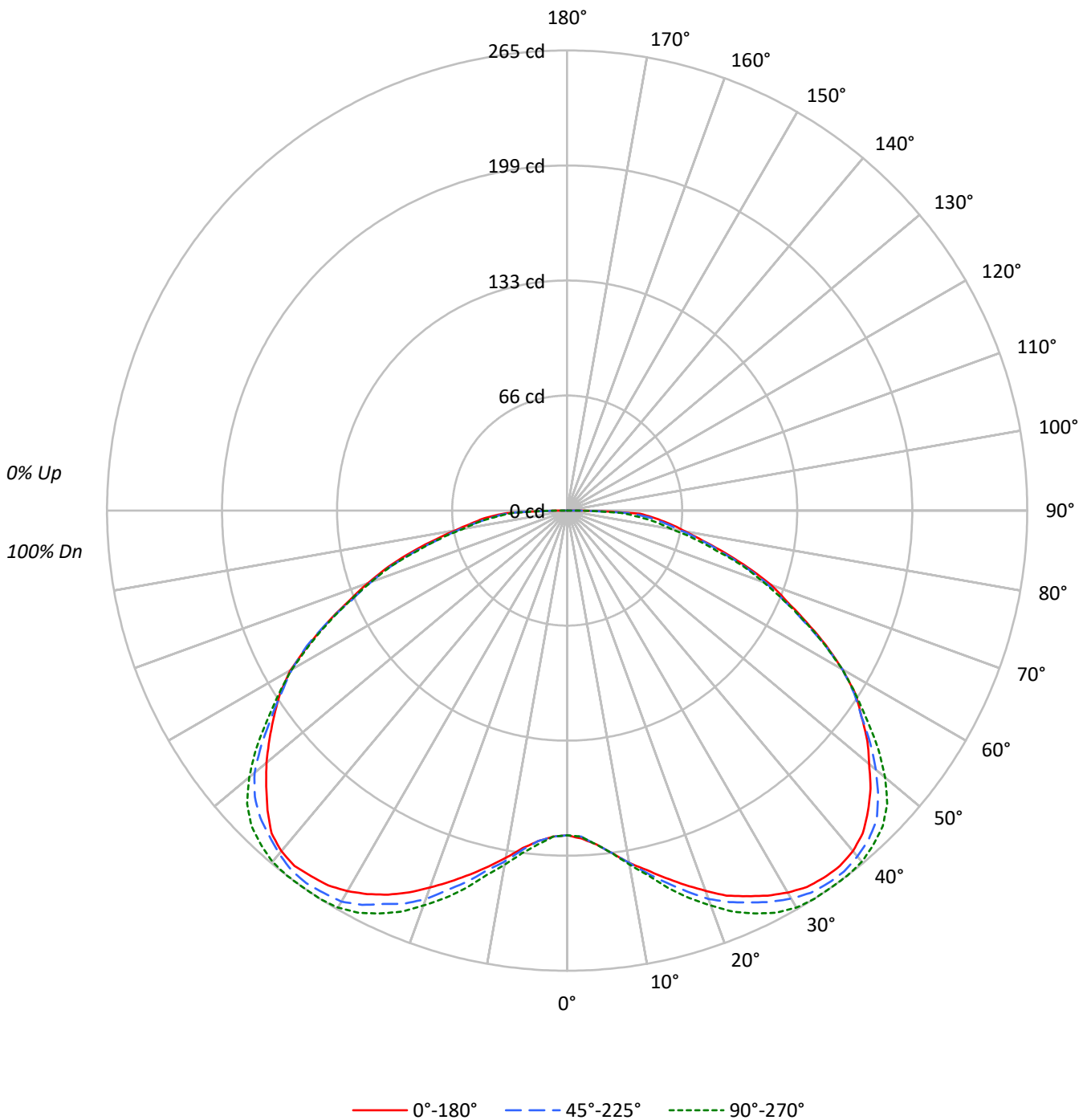
Lumens per Lamp: 1675 (1 lamp)  
Luminaire Lumens: 1033.6 lumens  
Efficiency: 61.7%  
Efficacy: 36.9 lumens/watt  
Spacing Criteria (0/90/45): 1.92 / 1.97 / 1.89  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

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	73	73	73	73	72	72	72	72	69	69	69	66	66	66	63	63	63	62
1	66	62	59	57	64	61	58	56	58	56	54	56	54	52	54	52	51	49
2	59	53	49	45	58	52	48	44	50	46	43	48	45	42	46	43	41	40
3	53	46	41	36	52	45	40	36	43	39	35	41	38	34	40	37	34	32
4	49	40	34	30	47	40	34	30	38	33	29	36	32	29	35	31	28	27
5	44	36	30	25	43	35	29	25	34	29	25	32	28	24	31	27	24	23
6	41	32	26	21	39	31	25	21	30	25	21	29	24	21	28	24	21	19
7	37	28	23	19	36	28	22	19	27	22	18	26	22	18	25	21	18	17
8	35	26	20	16	34	25	20	16	24	20	16	24	19	16	23	19	16	15
9	32	23	18	14	31	23	18	14	22	18	14	22	17	14	21	17	14	13
10	30	21	16	13	29	21	16	13	21	16	13	20	16	13	19	15	13	11

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

	0°	90°	180°
0°	20432	20432	20432
5°	21168	21168	20949
10°	22855	22966	22522
15°	24772	25451	24546
20°	27092	28138	26859
25°	29536	30862	29416
30°	32046	33307	31919
35°	34413	35346	34279
40°	36513	37654	36513
45°	37857	39711	37702
50°	38585	40625	38415
55°	39431	40193	39241
60°	39989	39989	40208
65°	39297	39038	39297
70°	39932	38335	38974
75°	39682	37571	39260
80°	43415	38382	40898
85°	63935	51399	58920



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	18.8	1.8	1.1
10°-20°	63.2	6.1	3.8
20°-30°	115.7	11.2	6.9
30°-40°	164.0	15.9	9.8
40°-50°	192.7	18.6	11.5
50°-60°	186.6	18.1	11.1
60°-70°	150.1	14.5	9.0
70°-80°	97.0	9.4	5.8
80°-90°	45.5	4.4	2.7
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°	197.7	19.1	11.8
0°-40°	361.7	35.0	21.6
0°-60°	740.9	71.7	44.2
0°-90°	1033.6	100.0	61.7
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°	1033.6	100.0	61.7

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	187	187	187	187	187	
5°	193	193	193	191	191	19
15°	219	222	225	221	217	63
25°	245	249	256	250	244	114
35°	258	262	265	262	257	161
45°	245	252	257	250	244	189
55°	207	207	211	208	206	185
65°	152	150	151	152	152	151
75°	94	92	89	90	93	100
85°	51	48	41	42	47	51
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°	187	187	187	187	187	187	187	187	187
2.5°	189	189	188	188	188	188	188	188	188
5°	193	193	193	193	193	192	191	191	191
7.5°	199	199	199	199	199	198	197	196	196
10°	206	206	206	207	207	206	205	204	203
12.5°	212	212	214	215	215	214	212	211	210
15°	219	220	222	224	225	223	221	218	217
17.5°	226	227	230	233	234	232	229	226	224
20°	233	234	238	241	242	241	238	233	231
22.5°	240	241	244	247	250	248	245	240	238
25°	245	246	249	254	256	254	250	246	244
27.5°	250	251	254	259	261	259	256	251	249
30°	254	256	258	262	264	263	260	256	253
32.5°	257	258	261	265	265	264	261	258	256
35°	258	259	262	266	265	265	262	260	257
37.5°	258	259	262	266	265	264	261	259	258
40°	256	258	260	263	264	262	258	257	256
42.5°	252	254	257	260	261	259	254	252	252
45°	245	248	252	255	257	254	250	246	244
47.5°	237	239	243	247	250	248	244	238	235
50°	227	228	232	237	239	239	235	229	226
52.5°	218	217	220	223	226	226	222	218	216
55°	207	207	207	210	211	211	208	206	206
57.5°	197	196	196	197	197	196	195	195	196
60°	183	184	183	183	183	182	183	184	184
62.5°	168	168	167	167	167	168	169	169	168
65°	152	151	150	150	151	152	152	152	152
67.5°	137	136	135	134	135	135	134	135	136
70°	125	124	122	121	120	120	120	121	122
72.5°	109	108	107	105	106	106	106	108	108
75°	94	93	92	91	89	89	90	92	93
77.5°	80	79	79	77	75	73	75	77	78
80°	69	69	67	64	61	61	63	64	65
82.5°	60	60	57	54	52	50	52	55	55
85°	51	50	48	44	41	41	42	45	47
87.5°	42	40	37	33	31	32	34	35	35
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)