

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: 267p139

Luminaire Tested: **H578ICAT-5021SC**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 267p139
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H578ICAT-5021SC
Description: 5" OPEN RECESSED CLEAR SPECULAR REFLECTOR WITH WHITE TRIM, IN
H57 HOUSING
Light Source: ONE COMPACT FLUORESCENT ECO TWIST LAMP
CF28T/827 28 WATTS
Ballast/Driver: -

Summary

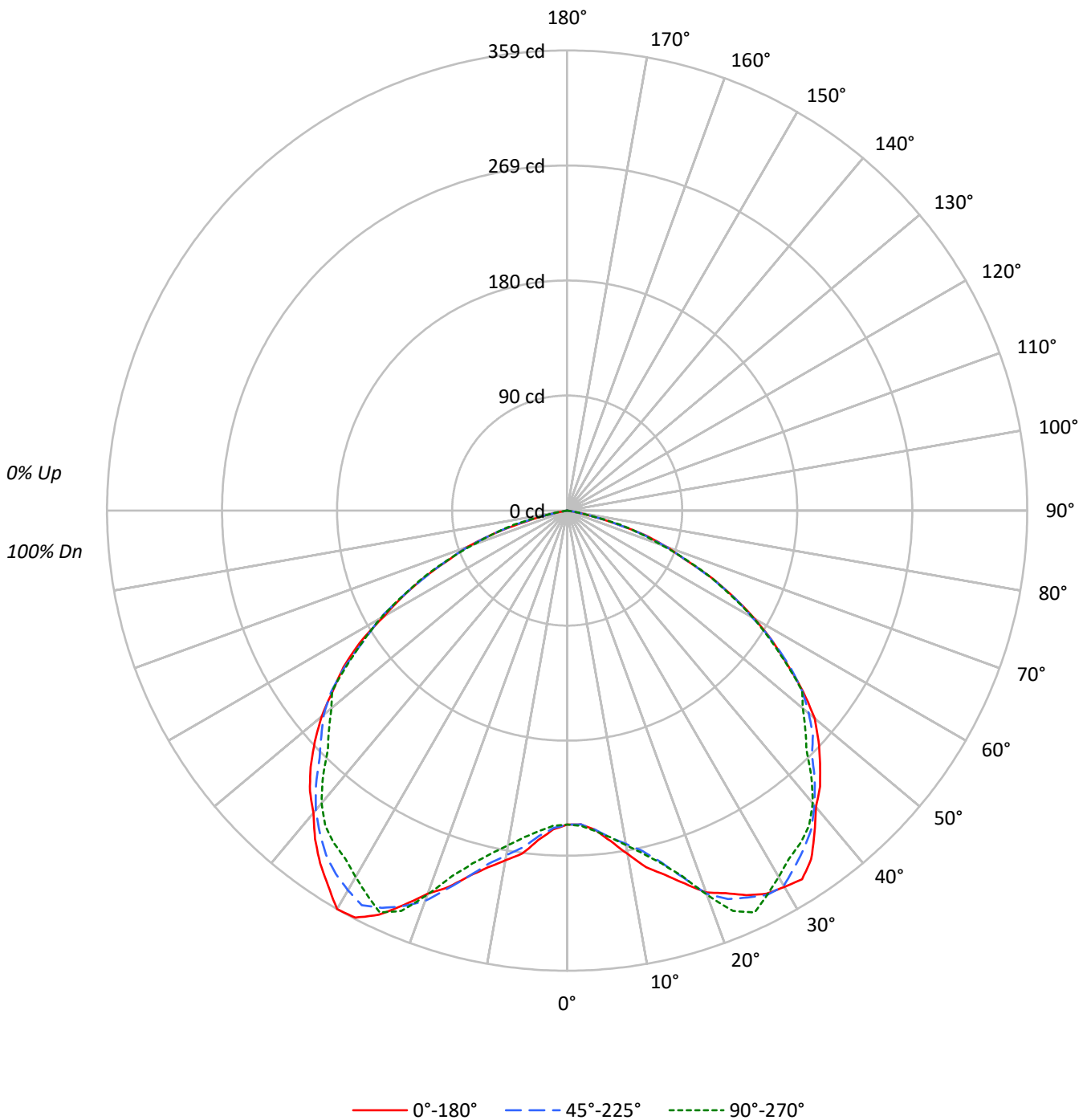
Lumens per Lamp: 1675 (1 lamp)
Luminaire Lumens: 1030.0 lumens
Efficiency: 61.5%
Efficacy: 39.6 lumens/watt
Spacing Criteria (0/90/45): 1.79 / 1.76 / 1.73
Luminous Opening: Circular (Dia: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 26
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	68	68	68	65	65	65	63	63	63	61
1	68	65	62	60	66	63	61	59	61	59	57	58	57	56	56	55	54	53
2	62	57	53	49	60	56	52	49	53	50	48	51	49	47	50	47	46	44
3	56	50	45	41	55	49	44	41	47	43	40	45	42	39	44	41	39	37
4	51	44	39	35	50	43	38	34	42	37	34	40	36	33	39	36	33	32
5	47	39	34	30	46	38	33	29	37	33	29	36	32	29	35	31	28	27
6	43	35	30	26	42	34	29	25	33	29	25	32	28	25	31	28	25	24
7	40	32	26	22	39	31	26	22	30	26	22	29	25	22	28	25	22	21
8	37	29	23	20	36	28	23	20	27	23	20	27	23	19	26	22	19	18
9	35	26	21	18	34	26	21	18	25	21	18	24	20	17	24	20	17	16
10	32	24	19	16	31	24	19	16	23	19	16	23	18	16	22	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	23877	23877	23877
5°	24458	24555	25240
10°	26918	26225	27412
15°	29663	28755	29764
20°	32877	33084	32981
25°	35593	37206	37422
30°	38149	37137	40400
35°	39499	37715	39975
40°	38421	37912	39185
45°	38454	36386	39005
50°	38208	36388	37904
55°	35682	35512	36191
60°	32941	32746	32161
65°	28826	28595	28134
70°	23366	22226	23651
75°	14309	16192	12803
80°	2806	2806	1684
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	24.7	2.4	1.5
10°-20°	83.3	8.1	5.0
20°-30°	155.9	15.1	9.3
30°-40°	202.9	19.7	12.1
40°-50°	211.4	20.5	12.6
50°-60°	187.3	18.2	11.2
60°-70°	121.7	11.8	7.3
70°-80°	42.0	4.1	2.5
80°-90°	0.8	0.1	0.0
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°	263.9	25.6	15.8
0°-40°	466.8	45.3	27.9
0°-60°	865.5	84.0	51.7
0°-90°	1030.0	100.0	61.5
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°	1030.0	100.0	61.5

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	245	245	245	245	245	
5°	250	250	251	255	258	25
15°	294	284	285	295	295	84
25°	331	333	346	342	348	153
35°	332	322	317	328	336	205
45°	279	270	264	273	283	215
55°	210	212	209	211	213	188
65°	125	123	124	121	122	123
75°	38	38	43	39	34	42
85°	0	0	0	0	0	1
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°	245	245	245	245	245	245	245	245	245
2.5°	245	245	245	246	246	247	248	249	249
5°	250	250	250	250	251	253	255	257	258
7.5°	260	259	257	256	257	260	265	268	270
10°	272	269	264	263	265	267	273	276	277
12.5°	285	280	272	270	274	277	282	284	285
15°	294	290	284	281	285	291	295	294	295
17.5°	305	303	300	295	299	309	309	308	308
20°	317	316	318	315	319	329	324	320	318
22.5°	323	324	328	334	338	341	334	332	333
25°	331	329	333	343	346	343	342	346	348
27.5°	337	336	338	340	338	339	347	355	358
30°	339	340	338	332	330	333	342	353	359
32.5°	341	337	330	326	322	327	336	345	347
35°	332	329	322	318	317	320	328	334	336
37.5°	317	318	313	309	310	313	317	322	323
40°	302	303	300	299	298	301	305	310	308
42.5°	292	290	286	281	282	286	290	295	297
45°	279	276	270	267	264	270	273	280	283
47.5°	266	263	260	253	252	256	260	266	267
50°	252	250	246	243	240	245	248	250	250
52.5°	232	231	231	229	231	233	232	232	230
55°	210	210	212	213	209	210	211	212	213
57.5°	190	190	190	188	188	188	187	189	192
60°	169	166	167	168	168	170	169	165	165
62.5°	147	146	147	146	145	146	145	143	144
65°	125	123	123	123	124	125	121	120	122
67.5°	99	99	100	101	101	101	101	100	99
70°	82	81	81	81	78	78	81	82	83
72.5°	64	63	61	60	60	61	60	61	60
75°	38	38	38	42	43	43	39	36	34
77.5°	16	17	18	19	20	18	16	15	16
80°	5	4	5	5	5	4	3	3	3
82.5°	1	1	1	1	1	1	1	1	1
85°	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)