

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: G1-1812-059-3

Luminaire Tested: **LCR6 2700K**

Test Date: 12/14/18



Test Information

Test Method: LM-41-14
Report Number: G1-1812-059-3
Test Lab: INNOVATION CENTER(G1)
Test Date: 12/14/18
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: LCR6 2700K
Description: LCR 6INCH LED RECESSED FIXTURE 90CRI 2700K
Light Source: LUMILEDS
3030-2D
Ballast/Driver: LDS

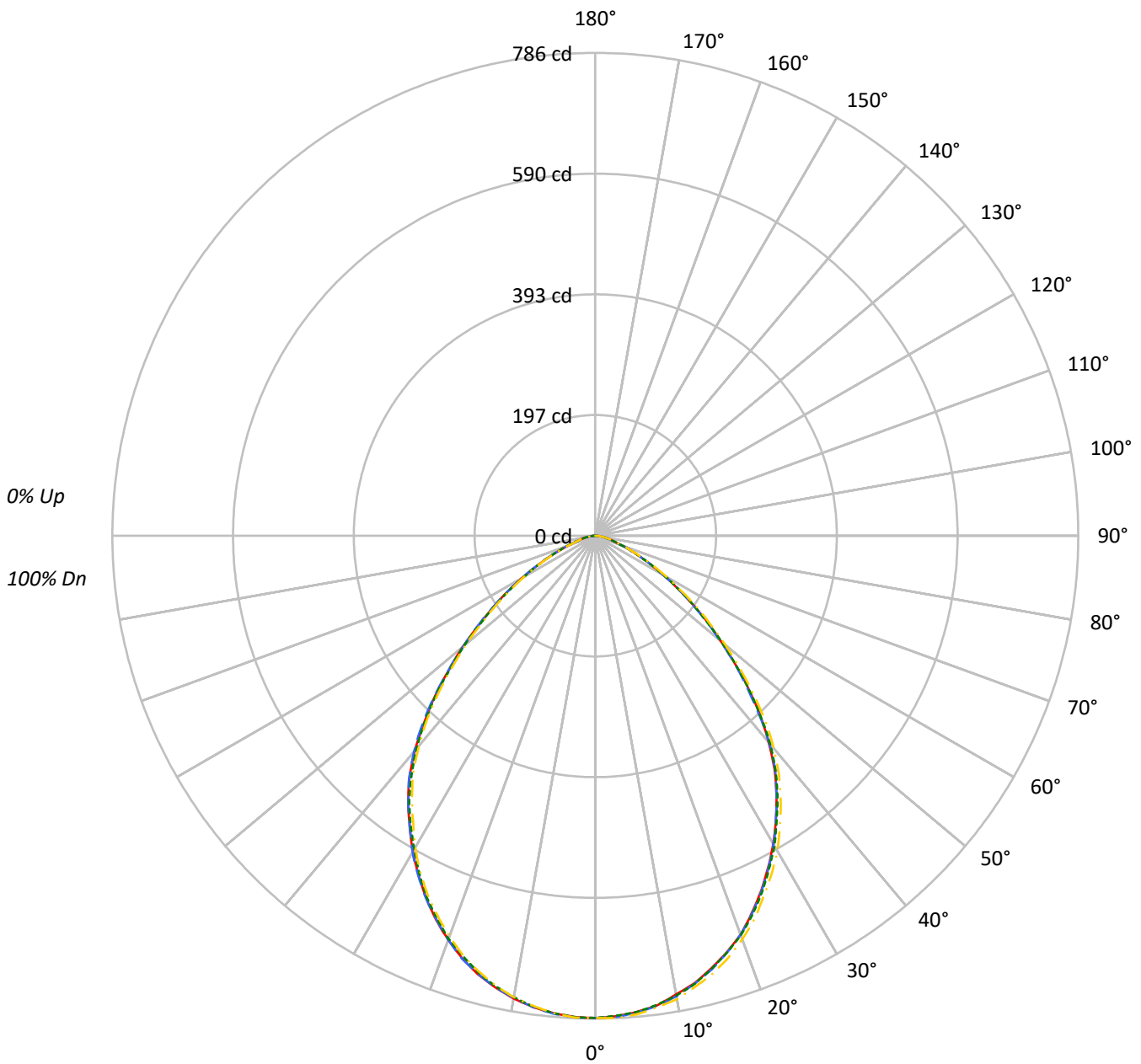
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1477.9 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.2
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 14.9
Input Voltage (V): 120.0
Input Current (Ain): 0.126
Voltage Rise (V): NR
Power Factor: 0.987
Total Harmonic Distortion (THDi): 9.06%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 7.0 HR
Ambient Temperature (°C): 24.6
Test Distance: 25 FT

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Luminous Intensity Polar Plot



0% Up
100% Dn

— 0°-180° - - 45°-225° - · - · 90°-270° - · - · 135°-315°



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89				89
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	79	78				78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68				68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60				60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53				53
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50	48				48
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43				43
8	67	54	47	41	65	54	46	41	53	46	41	51	45	41	50	45	41	39				39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36				36
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	61969	61969	61969	61969
5°	61651	61651	61809	61809
10°	60760	60921	61321	61161
15°	59578	59660	60395	60150
20°	58049	58133	58805	58637
25°	55571	55832	56703	56529
30°	52778	53142	54145	53689
35°	49534	49823	51172	50883
40°	45239	45651	47094	46682
45°	39409	39409	41195	40972
50°	32668	32790	34632	34264
55°	26287	26425	27801	27526
60°	20209	20367	21630	21314
65°	14943	14943	15877	15690
70°	10617	10386	10848	11310
75°	7930	7625	7930	7930
80°	7274	7274	7274	7274
85°	6340	6340	6340	6340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	5.0
10°-20°	206.5	14.0
20°-30°	296.3	20.0
30°-40°	325.2	22.0
40°-50°	277.1	18.8
50°-60°	177.3	12.0
60°-70°	84.0	5.7
70°-80°	29.6	2.0
80°-90°	8.1	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	576.6	39.0
0°-40°	901.8	61.0
0°-60°	1356.2	91.8
0°-90°	1477.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1477.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	785	785	785	785	785	
5°	778	778	780	780	778	74
15°	729	730	739	736	729	205
25°	638	641	651	649	638	293
35°	514	517	531	528	514	320
45°	353	353	369	367	353	271
55°	191	192	202	200	191	172
65°	80	80	85	84	80	81
75°	26	25	26	26	26	30
85°	7	7	7	7	7	8
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°	202.5°	225°
0°	785	785	785	785	785	785	785	785	785	785	785
2.5°	783	782	784	782	782	783	786	784	784	784	785
5°	778	777	779	777	778	778	782	780	780	781	781
7.5°	771	768	772	769	770	772	774	774	774	774	774
10°	758	758	761	759	760	762	766	763	765	766	764
12.5°	746	744	747	746	747	749	752	752	753	753	753
15°	729	728	731	729	730	733	738	737	739	739	738
17.5°	711	710	712	710	712	715	720	719	721	722	722
20°	691	687	691	688	692	695	699	699	700	702	700
22.5°	665	663	666	666	668	670	676	676	677	679	676
25°	638	635	639	639	641	643	648	649	651	652	652
27.5°	609	607	610	611	612	617	621	622	623	625	624
30°	579	577	580	578	583	586	593	591	594	595	595
32.5°	547	544	547	547	549	554	559	561	562	564	562
35°	514	512	514	513	517	520	526	528	531	531	531
37.5°	479	479	481	479	482	486	491	493	497	498	498
40°	439	438	441	440	443	447	452	456	457	458	459
42.5°	397	395	394	394	398	403	410	410	412	414	417
45°	353	350	349	349	353	358	363	364	369	370	371
47.5°	308	305	307	305	309	315	318	319	323	327	324
50°	266	263	264	263	267	270	276	277	282	281	281
52.5°	228	223	226	224	227	231	235	238	239	240	241
55°	191	189	189	189	192	193	199	199	202	205	205
57.5°	157	157	158	157	159	160	163	166	170	169	170
60°	128	127	127	127	129	131	134	134	137	139	139
62.5°	102	101	101	101	102	105	106	108	110	111	111
65°	80	80	80	79	80	82	83	85	85	86	86
67.5°	61	61	61	60	61	62	63	63	64	65	65
70°	46	45	45	46	45	46	46	47	47	48	49
72.5°	34	33	34	33	34	34	34	35	35	35	35
75°	26	25	25	25	25	25	26	26	26	26	26
77.5°	21	21	21	20	20	21	21	21	21	21	21
80°	16	16	16	15	16	16	16	16	16	16	16
82.5°	11	11	11	11	11	11	11	11	11	11	11
85°	7	7	7	7	7	7	7	7	7	7	7
87.5°	3	3	3	3	3	3	3	3	4	4	4
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	785	785	785	785	785	785
2.5°	784	784	782	785	781	783
5°	780	780	778	780	777	778
7.5°	774	773	771	772	769	771
10°	764	763	761	763	758	758
12.5°	752	751	749	750	746	746
15°	736	736	733	734	731	729
17.5°	720	717	715	716	711	711
20°	698	698	695	694	690	691
22.5°	675	674	671	670	665	665
25°	651	649	644	645	640	638
27.5°	622	620	617	617	610	609
30°	591	589	585	586	579	579
32.5°	560	559	555	552	547	547
35°	530	528	522	520	515	514
37.5°	495	491	489	487	480	479
40°	457	453	448	446	440	439
42.5°	414	410	406	405	398	397
45°	368	367	362	360	354	353
47.5°	325	320	318	315	310	308
50°	282	279	278	274	268	266
52.5°	241	237	235	232	229	228
55°	204	200	200	197	194	191
57.5°	168	167	166	164	160	157
60°	138	135	134	133	130	128
62.5°	110	109	106	107	103	102
65°	86	84	83	83	81	80
67.5°	65	64	64	62	61	61
70°	48	49	48	46	46	46
72.5°	35	35	34	34	34	34
75°	27	26	27	26	26	26
77.5°	21	22	21	21	21	21
80°	16	16	16	16	16	16
82.5°	11	12	12	11	11	11
85°	8	7	7	7	7	7
87.5°	4	4	4	4	3	3
90°	0	0	0	0	0	0

(END OF REPORT)