

**LUMINAIRE:** KXL-24L-X-5K-5R  
KxL Kemlux III Led, Extreme Environment  
Kemlux III LED fixture  
**BALLAST:** LED40W54C0700D  
**BALLAST FACTOR:** 1.00  
**LAMP:** Led  
**FIXTURE LUMENS:** 5895  
**WATTS:** 56.70  
**MOUNTING:** Pendant  
**SHIELDING ANGLE:** 0° = 90 90° = 90  
**SPACING CRITERION:** 0° = 3.86 90° = 2.35  
**LUMINOUS OPENING IN FEET**  
LENGTH: 2.00  
WIDTH: 2.00  
HEIGHT: 0.00

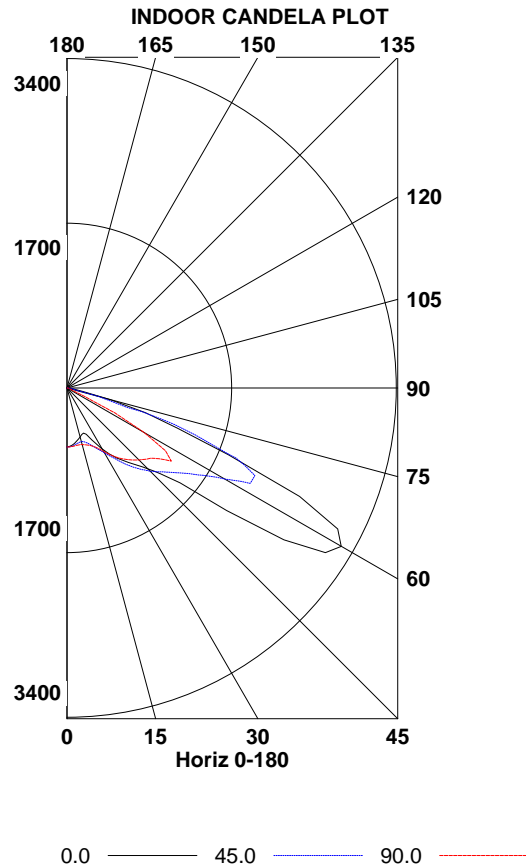
TEST #7095  
DATE: 6/12/2013  
**TOTAL LUMINAIRE EFFICIENCY = 100.0**  
**TOTAL LUMENS PER WATT = 104**  
**ANSI/IESNA RP-1-2004 COMPLIANCE: NONCOMPLIANT**  
**COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$2.33**  
**BASED ON 3000 HRS. AND \$.08 PER KWH**

**ZONAL LUMENS**

ZONE	LUMENS	% LAMP	% FIXTURE
0-30	523	8.9	8.9
0-40	1081	18.3	18.3
0-60	3579	60.7	60.7
0-90	5895	100.0	100.0
90-120	0	0.0	0.0
90-130	0	0.0	0.0
90-150	0	0.0	0.0
90-180	0	0.0	0.0
0-180	5895	100.0	100.0

**AVERAGE LUMINANCE**

ANGLE	CANDELA/SQ M						
	0.0	20.0	40.0	60.0	80.0	90.0	
0	2090	2090	2090	2090	2090	2090	
30	2872	2959	3074	2920	2928	2979	
40	4504	4656	4759	4549	4280	4307	
45	5727	5771	5844	5626	5146	5088	
50	8123	7548	7244	6999	6236	6018	
55	16326	12753	9420	9086	8548	7855	
60	22401	21551	13554	12533	7716	6277	
65	21484	24573	20252	10499	2189	1378	
70	12142	19985	18994	2454	541	461	
75	6143	11199	9836	741	371	331	
80	1717	3690	2210	474	276	257	
85	1494	2202	944	315	236	275	



**COEFFICIENTS OF UTILIZATION (%)**

RC	EFFECTIVE FLOOR CAVITY REFLECTANCE = 20%																			
	RW	80%				70%				50%				30%				10%		0%
		70%	50%	30%	10%	70%	50%	30%	10%	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	102	102	102	102	100
1	107	101	96	91	104	99	94	90	94	90	87	90	87	84	86	84	81	79	79	79
2	94	84	75	68	91	82	74	67	78	71	66	75	69	64	71	67	63	63	63	60
3	83	70	60	52	80	68	59	51	65	57	50	62	55	49	59	53	48	48	48	46
R	4	74	59	48	40	71	58	48	40	55	46	39	52	45	39	50	43	38	38	35
C	5	66	51	40	32	64	49	39	32	47	38	31	45	37	31	43	36	30	30	28
R	6	60	44	33	26	58	43	33	26	41	32	25	39	31	25	37	30	25	25	22
	7	55	39	28	21	53	38	28	21	36	27	21	35	27	21	33	26	20	20	18
	8	50	35	25	18	49	34	24	18	32	24	18	31	23	17	30	23	17	17	15
	9	47	31	22	15	45	30	21	15	29	21	15	28	20	15	27	20	15	15	13
	10	43	28	19	13	42	28	19	13	27	19	13	26	18	13	25	18	13	13	11

RCR = ROOM CAVITY RATIO RC = EFFECTIVE CEILING CAVITY REFLECTANCE RW = WALL REFLECTANCE

THE DATA IN THIS REPORT ARE BASED ON ABSOLUTE MEASUREMENTS.  
ANSI/IESNA RP-1 COMPLIANCE IS BASED ON ABSOLUTE MEASUREMENTS.  
THIS TEST RUN IN ACCORDANCE WITH CURRENT I.E.S.N.A. PUBLISHED PROCEDURES.

APPROVED BY: \_\_\_\_\_

LUMINAIRE: KXL-24L-X-5K-5R  
KxL Kemlux III Led, Extreme Environment  
Kemlux III LED fixture  
CANDELA VALUES

TEST #7095  
DATE: 6/12/2013

ANGLE	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0
0.0	610	610	610	610	610	610	610	610	610	610	610	610	610	610	610	610	610
2.5	604	603	606	607	608	607	607	609	609	609	607	607	608	608	608	609	608
5.0	594	593	596	598	599	599	599	602	602	603	602	602	604	604	604	606	605
7.5	578	578	581	583	584	585	586	591	592	593	593	596	598	598	598	602	601
10.0	559	559	563	565	568	570	572	578	582	583	585	591	594	595	595	601	600
12.5	541	541	545	547	551	555	559	566	572	576	581	587	592	594	595	601	601
15.0	523	525	529	533	538	544	549	559	567	573	580	587	592	595	599	603	605
17.5	504	507	514	523	534	545	554	567	576	582	588	594	598	602	607	611	614
20.0	496	500	512	527	545	562	574	589	600	603	608	610	612	614	619	623	626
22.5	516	520	533	549	570	589	606	623	634	635	637	633	631	628	631	634	640
25.0	572	574	584	595	614	628	646	664	675	675	674	663	655	646	648	651	660
27.5	644	648	655	662	675	685	700	714	721	721	717	702	689	677	677	680	694
30.0	726	727	735	740	748	755	764	774	777	773	766	751	738	723	722	726	740
32.5	805	806	814	821	826	833	838	843	842	836	828	813	800	783	781	783	795
35.0	878	880	891	897	906	912	918	919	914	907	899	883	868	856	847	844	853
37.5	940	944	958	966	977	988	991	995	991	988	978	961	944	928	912	907	907
40.0	1007	1012	1024	1034	1041	1054	1059	1063	1064	1067	1057	1041	1017	1000	977	964	957
42.5	1082	1089	1099	1104	1110	1120	1123	1130	1135	1142	1135	1117	1088	1072	1043	1023	1007
45.0	1182	1185	1188	1189	1191	1193	1188	1201	1206	1214	1205	1188	1161	1142	1110	1084	1062
47.5	1313	1307	1305	1297	1286	1278	1266	1272	1280	1280	1271	1259	1237	1212	1180	1149	1113
50.0	1524	1511	1482	1445	1416	1390	1366	1362	1359	1350	1342	1326	1313	1287	1254	1215	1170
52.5	2078	2038	1934	1786	1649	1556	1498	1477	1456	1439	1423	1406	1400	1381	1353	1312	1259
55.0	2733	2691	2582	2387	2135	1897	1708	1620	1577	1539	1526	1518	1521	1512	1512	1492	1431
57.5	3163	3144	3087	2958	2740	2423	2101	1868	1737	1677	1661	1681	1718	1720	1661	1554	1402
60.0	3269*	3267	3243	3217	3145	2940	2592	2229	1978	1880	1880	1886	1829	1689	1524	1327	1126
62.5	3149	3158	3189	3174	3203	3197	2977	2646	2312	2130	2034	1862	1652	1424	1190	949	752
65.0	2650	2628	2739	2798	3031	3227	3185	2920	2498	2139	1895	1617	1295	954	703	453	270
67.5	1801	1764	1888	2150	2633	3034	3096	2859	2326	1885	1538	1178	773	382	188	112	81
70.0	1212	1170	1241	1531	1995	2441	2663	2414	1896	1398	1019	606	245	106	76	66	54
72.5	852	802	837	1076	1406	1691	1953	1792	1337	821	432	166	85	62	53	47	40
75.0	464	410	455	645	846	1069	1347	1197	743	339	126	76	56	44	39	35	28
77.5	169	163	223	319	417	594	772	560	324	112	66	53	39	30	27	23	19
80.0	87	89	108	132	187	258	335	206	112	60	39	33	24	20	18	14	14
82.5	61	63	70	79	101	104	137	77	52	30	24	17	14	11	11	10	10
85.0	38	38	42	50	56	58	55	40	24	16	11	9	8	7	6	6	6
87.5	14	13	15	18	21	22	20	14	9	6	5	4	4	4	4	3	3
90.0	2	2	2	2	2	3	3	3	2	2	2	2	2	2	2	2	2
92.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

\*MAXIMUM CANDELA VALUE



**LUMINAIRE:** KXL-24L-X-5K-5R  
KxL Kemlux III Led, Extreme Environment  
Kemlux III LED fixture

TEST #7095  
DATE: 6/12/2013

**CANDELA VALUES**

ANGLE	85.0	90.0
0.0	610	610
2.5	610	609
5.0	607	606
7.5	604	603
10.0	603	601
12.5	603	601
15.0	606	604
17.5	616	614
20.0	631	627
22.5	647	643
25.0	668	666
27.5	704	703
30.0	752	753
32.5	806	810
35.0	861	866
37.5	915	917
40.0	963	963
42.5	1010	1007
45.0	1057	1050
47.5	1096	1089
50.0	1140	1129
52.5	1219	1199
55.0	1360	1315
57.5	1274	1206
60.0	981	916
62.5	609	562
65.0	197	170
67.5	68	67
70.0	46	46
72.5	33	33
75.0	25	25
77.5	17	18
80.0	12	13
82.5	10	10
85.0	6	7
87.5	3	3
90.0	2	1
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	0	0
105.0	0	0
107.5	0	0
110.0	0	0
112.5	0	0
115.0	0	0
117.5	0	0
120.0	0	0
122.5	0	0
125.0	0	0
127.5	0	0
130.0	0	0
132.5	0	0
135.0	0	0
137.5	0	0
140.0	0	0
142.5	0	0
145.0	0	0
147.5	0	0
150.0	0	0
152.5	0	0
155.0	0	0
157.5	0	0
160.0	0	0
162.5	0	0
165.0	0	0
167.5	0	0
170.0	0	0
172.5	0	0
175.0	0	0
177.5	0	0
180.0	0	0