

LUMINAIRE: KXL-18L-X-5K-5R
KxL Kemlux III Led, Extreme Environment
Kemlux III LED fixture
BALLAST: LED40W54C0700D
BALLAST FACTOR: 1.00
LAMP: Led
FIXTURE LUMENS: 4404
WATTS: 42.80
MOUNTING: Pendant
SHIELDING ANGLE: 0° = 90 90° = 90
SPACING CRITERION: 0° = 2.35 90° = 3.87
LUMINOUS OPENING IN FEET
LENGTH: 1.00
WIDTH: 1.00
HEIGHT: 0.00

TEST #7094
DATE: 6/7/2013

TOTAL LUMINAIRE EFFICIENCY = 100.0
TOTAL LUMENS PER WATT = 103

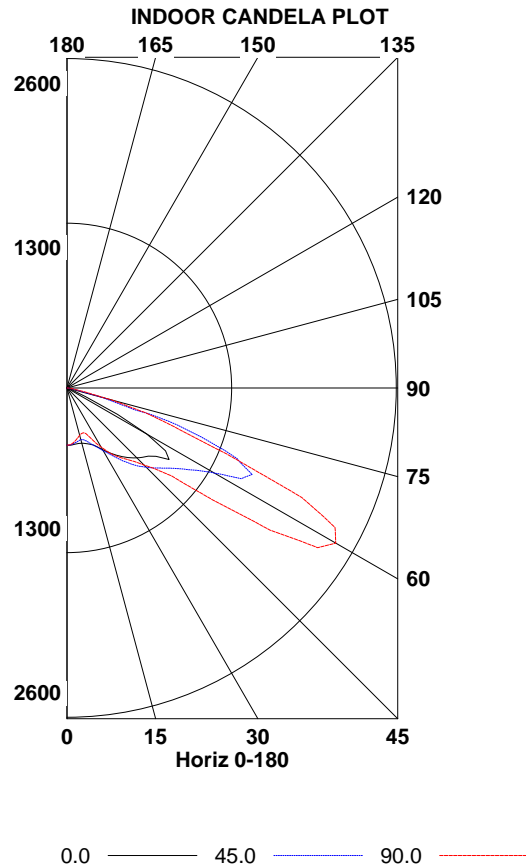
ANSI/IESNA RP-1-2004 COMPLIANCE: NONCOMPLIANT
COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$2.35
BASED ON 3000 HRS. AND \$.08 PER KWH

ZONAL LUMENS

ZONE	LUMENS	% LAMP	% FIXTURE
0-30	388	8.8	8.8
0-40	800	18.2	18.2
0-60	2619	59.5	59.5
0-90	4404	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	4404	100.0	100.0

AVERAGE LUMINANCE

ANGLE	CANDELA/SQ M					
	0.0	20.0	40.0	60.0	80.0	90.0
0	6181	6181	6181	6181	6181	6181
30	8894	8466	8957	8973	8656	8546
40	12738	12845	13883	13973	13472	13168
45	15137	15777	17095	16862	16746	16688
50	17846	19637	20852	21236	22664	23027
55	23512	26140	26475	29175	44323	46784
60	19900	31714	37058	50709	66607	67155
65	5156	17868	45984	76857	69852	66285
70	1322	2204	30494	62186	40512	36465
75	953	1430	4872	56342	22134	19804
80	710	1026	2289	22415	7340	5525
85	944	786	1258	7076	3931	4089



COEFFICIENTS OF UTILIZATION (%)

RC	EFFECTIVE FLOOR CAVITY REFLECTANCE = 20%																		
	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%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	106	101	95	91	104	98	94	89	94	90	86	90	87	84	86	84	81	79	
2	94	83	75	68	91	81	74	67	78	71	65	74	69	64	71	66	62	60	
3	83	70	59	51	80	68	58	51	65	57	50	62	55	49	59	53	48	45	
R	4	74	59	48	40	71	57	47	39	55	46	39	52	44	38	50	43	37	35
C	5	66	50	39	31	64	49	39	31	47	38	31	45	37	30	43	36	30	27
R	6	60	44	33	25	58	43	33	25	41	32	25	39	31	25	37	30	24	22
	7	55	39	28	21	53	38	28	21	36	27	21	34	26	20	33	26	20	18
	8	50	34	24	18	48	34	24	18	32	24	17	31	23	17	30	22	17	15
	9	46	31	22	15	45	30	21	15	29	21	15	28	20	15	27	20	15	13
	10	43	28	19	13	42	28	19	13	27	19	13	25	18	13	25	18	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-18L-X-5K-5R
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Kemlux III LED fixture
CANDELA VALUES

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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	451	451	451	451	451	451	451	451	451	451	451	451	451	451	451	451	451
2.5	453	452	454	449	451	450	450	449	449	452	450	448	448	450	449	449	448
5.0	451	451	452	448	449	448	447	447	446	447	446	444	444	445	445	444	441
7.5	448	449	450	447	446	445	442	442	440	440	439	435	435	435	433	432	430
10.0	448	449	450	447	445	443	441	438	435	434	431	427	424	423	420	419	416
12.5	448	449	449	445	444	441	438	434	430	427	422	416	411	409	406	403	401
15.0	451	453	452	447	445	442	439	432	428	422	417	410	404	401	397	393	389
17.5	458	460	459	454	450	447	443	436	432	428	423	415	409	402	396	389	383
20.0	469	471	469	465	457	457	454	449	448	445	442	434	426	417	407	394	385
22.5	481	482	479	473	466	467	468	468	470	470	468	459	450	439	426	412	402
25.0	498	498	492	487	479	481	486	491	498	500	498	490	481	470	459	448	440
27.5	526	524	515	510	501	504	512	520	529	533	534	527	519	513	506	495	491
30.0	562	560	548	541	535	538	547	557	566	571	574	571	567	563	557	550	547
32.5	599	597	587	580	576	580	588	598	609	615	621	621	620	617	611	608	605
35.0	638	638	630	623	621	630	639	648	661	668	674	675	677	672	667	661	656
37.5	678	678	670	667	669	684	697	706	718	726	730	730	731	726	720	713	707
40.0	712	712	708	710	718	736	750	763	776	782	783	780	781	771	767	760	753
42.5	745	746	746	753	765	786	803	817	832	836	836	829	827	816	811	805	802
45.0	781	782	786	799	814	836	853	872	882	885	884	874	870	868	863	863	864
47.5	809	814	824	846	865	888	905	920	932	935	933	927	924	928	934	942	947
50.0	837	848	867	899	921	944	960	969	978	985	988	987	996	1004	1024	1041	1063
52.5	885	899	930	967	989	1012	1026	1030	1036	1042	1053	1067	1089	1114	1164	1258	1361
55.0	984	1008	1051	1079	1094	1106	1112	1108	1108	1115	1135	1168	1221	1328	1510	1701	1855
57.5	923	958	1049	1146	1231	1263	1236	1216	1209	1208	1243	1318	1485	1711	1960	2141	2257
60.0	726	764	870	1008	1157	1268	1350	1381	1352	1343	1406	1575	1850	2119	2314	2392	2430
62.5	450	492	582	725	916	1097	1256	1388	1499	1550	1654	1904	2188	2369	2411	2397	2410
65.0	159	181	240	343	551	780	1020	1224	1418	1612	1906	2167	2370	2407	2326	2213	2154
67.5	51	51	61	81	169	354	650	902	1139	1451	1842	2207	2353	2297	2063	1748	1523
70.0	33	33	39	47	55	87	225	462	761	1124	1546	1880	2051	1909	1571	1221	1011
72.5	23	24	28	33	37	46	63	112	349	696	1124	1388	1528	1369	1128	883	707
75.0	18	18	21	24	27	31	40	52	92	290	613	908	1064	917	692	539	418
77.5	14	13	15	17	19	22	28	35	47	91	242	463	645	481	327	270	207
80.0	9	9	10	11	13	15	17	22	29	41	80	172	284	210	157	110	93
82.5	8	7	8	7	8	9	11	13	18	21	39	58	108	86	79	55	52
85.0	6	6	6	6	5	6	6	7	8	11	16	28	45	44	38	32	25
87.5	3	3	3	3	3	3	3	4	4	5	6	8	12	14	13	9	7
90.0	1	1	2	2	2	1	1	2	2	2	2	2	2	2	2	1	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



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Kemlux III LED fixture

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CANDELA VALUES

ANGLE	85.0	90.0
0.0	451	451
2.5	449	450
5.0	442	443
7.5	430	430
10.0	416	416
12.5	400	400
15.0	387	387
17.5	378	378
20.0	379	376
22.5	393	390
25.0	432	431
27.5	485	485
30.0	544	540
32.5	599	596
35.0	647	648
37.5	695	692
40.0	742	736
42.5	791	786
45.0	858	861
47.5	950	948
50.0	1075	1080
52.5	1411	1456
55.0	1944	1958
57.5	2325	2346
60.0	2439	2450*
62.5	2391	2384
65.0	2061	2044
67.5	1368	1374
70.0	922	910
72.5	654	650
75.0	371	374
77.5	170	161
80.0	82	70
82.5	46	41
85.0	23	26
87.5	6	6
90.0	1	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

*MAXIMUM CANDELA VALUE