



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LUX-IK10P-E-11-DA-HO3-850-4-U10-CA4_L051805416.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L051805416
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUEDATE] 11/14/2018
 [MANUFAC] LUX dynamics
 [LUMCAT] LUX-IK10P-E-11-DA-HO3-850-4-U10-CA4
 [LUMINAIRE] 11-bar, 2-channel, high efficacy, acrylic lens, 4'
 [BALLASTCAT] OSRAM OPTOTRONIC OTi 85/120-277/2A3 DIM L (11 DRIVERS)
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [INPUT] 120.0VAC, 860.4W
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	128116
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	860.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	2.71 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	34613	40030	42368
55	27970	40461	48905
65	22057	44513	50694
75	15460	41540	44715
85	10663	32679	23657

CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	43536	43536	43536	43536	43536	43536	43536	43536	43536	43536
5	43216	43224	43224	43225	43238	43248	43275	43304	43333	43358
10	42494	42505	42526	42565	42624	42660	42714	42772	42827	42883
15	41289	41322	41382	41451	41545	41635	41717	41787	41795	41772
20	39646	39695	39777	39899	40019	40125	40128	40061	39940	39845
25	37428	37493	37601	37758	37888	37915	37789	37643	37530	37472
30	34726	34784	34927	35111	35218	35178	35049	34945	34883	34893
35	31424	31495	31705	31936	32055	32035	31976	31981	32076	32284
40	27608	27732	28032	28323	28516	28631	28772	29015	29371	29825
45	23623	23757	24100	24477	24826	25165	25615	26145	26733	27320
50	19492	19647	20000	20460	21010	21587	22362	23119	23937	24729
55	15484	15613	15949	16489	17216	18077	19028	20096	21188	22399
60	12266	12361	12680	13274	14092	15105	16318	17754	19309	20741
65	8997	9070	9394	10012	10881	12055	13572	15325	16995	18157
70	6172	6246	6576	7175	8066	9315	10865	12454	13698	14461
75	3862	3954	4263	4801	5614	6698	7907	9037	9883	10377
80	2101	2201	2451	2911	3463	4083	4685	5326	5969	6509
85	897	961	1106	1264	1440	1679	1955	2319	2604	2749
90	356	357	358	359	362	364	367	370	373	375
95	432	421	381	355	355	356	357	359	361	362
100	543	581	593	488	384	348	347	348	349	349
105	644	714	850	880	713	497	362	341	339	339
110	747	836	1024	1190	1235	1065	755	475	360	334
115	846	945	1172	1380	1522	1578	1469	1149	768	503
120	917	1013	1249	1496	1657	1750	1795	1756	1553	1203
125	1002	1090	1309	1551	1743	1841	1878	1904	1924	1883
130	1050	1124	1308	1534	1736	1868	1936	1947	1954	1962
135	1084	1143	1291	1486	1671	1816	1904	1959	1969	1968
140	1089	1131	1243	1399	1560	1704	1811	1877	1923	1950
145	1066	1096	1179	1295	1424	1558	1665	1750	1815	1858
150	1035	1058	1111	1196	1291	1398	1503	1592	1667	1728
155	1010	1024	1056	1116	1186	1261	1346	1431	1507	1570
160	999	1006	1027	1060	1109	1158	1216	1279	1341	1404
165	984	986	996	1015	1039	1070	1103	1140	1180	1220
170	978	977	980	989	997	1009	1023	1041	1056	1074
175	975	973	972	972	973	972	973	974	978	983
180	962	962	962	962	962	962	962	962	962	962

Vert. Angles Horizontal Angles

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
0	43536	43536	43536	43536	43536	43536	43536	43536	43536
5	43391	43421	43452	43466	43472	43486	43496	43477	43510
10	42927	42954	42977	42980	42984	42974	42968	42953	42980
15	41705	41637	41564	41516	41483	41459	41453	41441	41453
20	39787	39732	39708	39677	39675	39669	39685	39693	39690
25	37469	37472	37475	37458	37450	37445	37455	37471	37478
30	34955	35073	35220	35349	35438	35510	35582	35610	35619
35	32569	32913	33213	33403	33491	33535	33562	33583	33588
40	30277	30645	30937	31133	31187	31157	31154	31143	31149
45	27858	28253	28550	28767	28828	28849	28878	28907	28915
50	25434	25999	26447	26848	27244	27613	27884	28119	28172
55	23435	24305	25082	25776	26364	26692	26905	27037	27074
60	21866	22610	23061	23342	23558	23670	23752	23803	23827

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CANDELA TABULATION - (Cont.)

65	18757	19063	19374	19746	20123	20395	20580	20649	20678
70	14973	15425	15847	16141	16285	16290	16221	16155	16126
75	10731	11091	11400	11590	11616	11517	11356	11223	11170
80	6916	7096	7012	6741	6412	6130	5916	5787	5744
85	2763	2711	2612	2502	2360	2218	2104	2021	1990
90	377	378	380	380	381	381	381	381	381
95	363	365	366	368	369	369	369	369	369
100	350	351	352	353	354	354	355	355	354
105	339	339	340	341	341	342	343	342	342
110	331	331	331	331	332	333	333	333	332
115	389	348	332	330	330	330	330	330	329
120	854	608	477	408	373	353	340	334	333
125	1723	1461	1171	930	764	660	598	564	554
130	1981	1971	1921	1814	1688	1555	1445	1377	1354
135	1956	1954	1960	1978	1991	1983	1969	1958	1952
140	1952	1952	1942	1940	1928	1911	1900	1896	1895
145	1894	1915	1932	1939	1931	1919	1906	1902	1901
150	1782	1820	1852	1871	1879	1884	1886	1884	1885
155	1629	1681	1721	1747	1769	1785	1795	1799	1801
160	1460	1509	1549	1580	1608	1629	1641	1649	1653
165	1262	1302	1337	1367	1393	1412	1426	1436	1439
170	1096	1118	1138	1155	1170	1183	1192	1197	1199
175	992	999	1005	1011	1017	1021	1025	1027	1028
180	962	962	962	962	962	962	962	962	962

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	15832.43	N.A.	12.40
0-30	33153.22	N.A.	25.90
0-40	53523.19	N.A.	41.80
0-60	93820.19	N.A.	73.20
0-80	119060.8	N.A.	92.90
0-90	121690.1	N.A.	95.00
10-90	117568.9	N.A.	91.80
20-40	37690.77	N.A.	29.40
20-50	58490.79	N.A.	45.70
40-70	56127.21	N.A.	43.80
60-80	25240.56	N.A.	19.70
70-80	9410.35	N.A.	7.30
80-90	2629.38	N.A.	2.10
90-110	909.32	N.A.	0.70
90-120	1677.87	N.A.	1.30
90-130	2865.73	N.A.	2.20
90-150	5288.61	N.A.	4.10
90-180	6426.15	N.A.	5.00
110-180	5516.83	N.A.	4.30
0-180	128116.3	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4121.22
10-20	11711.21
20-30	17320.79
30-40	20369.98
40-50	20800.02
50-60	19496.97
60-70	15830.21
70-80	9410.35
80-90	2629.38
90-100	409.78
100-110	499.54
110-120	768.55
120-130	1187.86
130-140	1363.13
140-150	1059.75
150-160	690.91
160-170	349.02
170-180	97.60

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

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
0	118	118	118	118	115	115	115	115	108	108	108	103	103	103	97	97	97	95
1	107	102	98	94	104	100	96	92	94	91	88	90	87	85	85	83	81	79
2	97	89	82	76	94	87	80	75	82	77	72	78	74	70	75	71	68	65
3	89	78	70	63	86	76	68	62	72	66	61	69	63	59	66	61	57	55
4	81	69	60	53	78	67	59	53	64	57	51	61	55	50	59	53	49	47
5	75	62	53	46	72	60	52	45	57	50	44	55	49	43	53	47	43	40
6	69	55	46	40	67	54	46	40	52	44	39	50	43	38	48	42	37	35
7	64	50	41	35	62	49	41	35	47	40	34	45	39	34	44	38	33	31
8	59	46	37	31	57	45	37	31	43	36	31	42	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	33	28	38	32	27	37	31	27	25
10	52	39	31	26	50	38	31	25	37	30	25	35	29	25	34	29	24	23

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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size

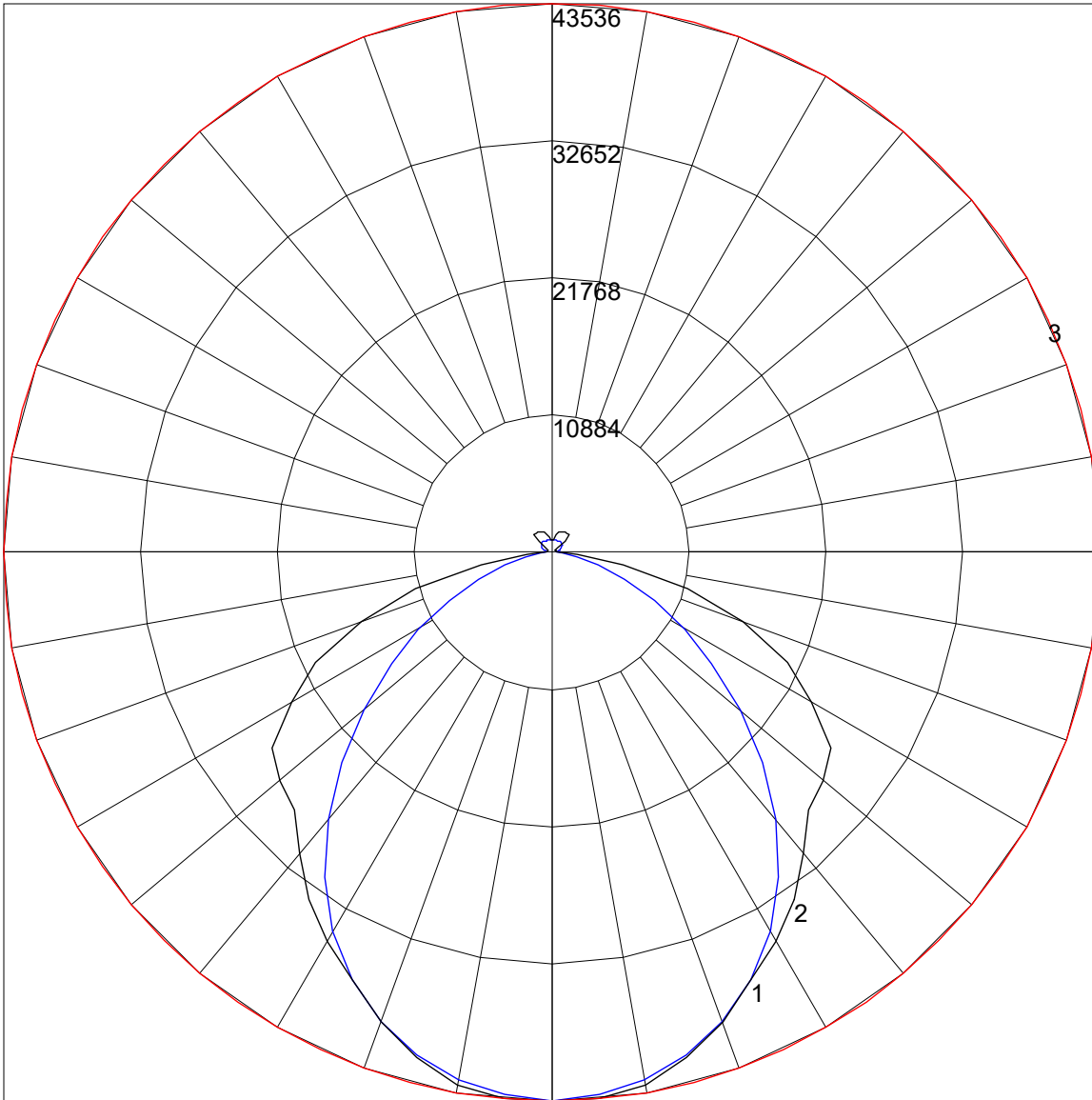
UGR Viewed Crosswise

UGR Viewed Endwise

X=2H	Y=2H	39.6	41.1	40.0	41.6	42.0	42.9	44.5	43.4	44.9	45.3
	3H	40.8	42.2	41.3	42.7	43.1	45.1	46.5	45.6	46.9	47.4
	4H	41.2	42.6	41.7	43.0	43.5	45.9	47.2	46.4	47.6	48.1
	6H	41.5	42.7	42.0	43.2	43.7	46.4	47.6	46.8	48.0	48.5
	8H	41.6	42.7	42.1	43.2	43.7	46.5	47.6	47.0	48.1	48.6
	12H	41.6	42.7	42.1	43.2	43.8	46.5	47.6	47.0	48.1	48.7
4H	2H	41.2	42.5	41.6	42.9	43.4	43.5	44.8	44.0	45.3	45.8
	3H	42.7	43.8	43.2	44.3	44.8	45.9	47.0	46.4	47.5	48.1
	4H	43.2	44.2	43.7	44.7	45.3	46.9	47.9	47.4	48.4	48.9
	6H	43.6	44.4	44.1	45.0	45.5	47.5	48.3	48.0	48.9	49.4
	8H	43.6	44.5	44.2	45.0	45.6	47.6	48.5	48.2	49.0	49.6
	12H	43.7	44.4	44.2	45.0	45.6	47.7	48.5	48.3	49.0	49.6
8H	4H	44.1	44.9	44.6	45.5	46.0	47.1	47.9	47.7	48.5	49.1
	6H	44.6	45.3	45.2	45.9	46.5	47.9	48.6	48.5	49.1	49.7
	8H	44.8	45.4	45.4	46.0	46.6	48.1	48.7	48.7	49.3	49.9
	12H	44.9	45.4	45.5	46.0	46.7	48.3	48.8	48.9	49.4	50.1
12H	4H	44.2	45.0	44.8	45.5	46.1	47.1	47.9	47.7	48.4	49.0
	6H	44.8	45.5	45.4	46.0	46.7	47.9	48.6	48.5	49.1	49.8
	8H	45.1	45.6	45.7	46.2	46.9	48.2	48.8	48.8	49.4	50.0

Maximum UGR = 50.1

POLAR GRAPH



Maximum Candela = 43536 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)