



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LRKT2430.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [LUMCAT] LRKT2430
 [LUMINAIRE] 2X4 Troffer Retrofit
 [LAMP] LED
 [USER DEFINED] 120.05 VAC, 315.19 mA, 37.733 W, 0.9972 PF
 [TESTLAB] Intertek
 [ISSUE DATE] 11/03/2016

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4481
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	37.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.75 ft
Luminous Width (90-270)	1.75 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2184	2313	2463
55	2008	2198	2423
65	1811	2112	2483
75	1606	2239	2864
85	1327	2903	3595

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	1569.0	1569.0	1569.0	1569.0	1569.0	1569.0	1569.0	1569.0	1569.0	1569.0
2.5	1577.1	1566.3	1568.0	1560.3	1568.7	1560.3	1568.0	1566.3	1577.1	1566.3
5.0	1570.0	1557.8	1564.2	1554.6	1566.1	1554.6	1564.2	1557.8	1570.0	1557.8
7.5	1558.4	1549.2	1552.6	1545.6	1555.0	1545.6	1552.6	1549.2	1558.4	1549.2
10.0	1541.9	1532.2	1538.2	1534.2	1544.2	1534.2	1538.2	1532.2	1541.9	1532.2
12.5	1522.0	1514.6	1522.3	1517.3	1530.0	1517.3	1522.3	1514.6	1522.0	1514.6
15.0	1496.9	1490.2	1498.5	1497.4	1510.7	1497.4	1498.5	1490.2	1496.9	1490.2
17.5	1468.0	1461.2	1475.1	1475.6	1487.9	1475.6	1475.1	1461.2	1468.0	1461.2
20.0	1435.1	1430.9	1443.4	1450.8	1463.7	1450.8	1443.4	1430.9	1435.1	1430.9
22.5	1400.5	1397.3	1413.9	1420.8	1435.9	1420.8	1413.9	1397.3	1400.5	1397.3
25.0	1361.5	1356.0	1378.9	1390.8	1405.6	1390.8	1378.9	1356.0	1361.5	1356.0
27.5	1317.4	1314.6	1341.2	1354.0	1371.5	1354.0	1341.2	1314.6	1317.4	1314.6
30.0	1269.6	1269.3	1297.8	1317.9	1335.2	1317.9	1297.8	1269.3	1269.6	1269.3
32.5	1221.5	1222.5	1254.5	1276.4	1295.3	1276.4	1254.5	1222.5	1221.5	1222.5
35.0	1168.6	1172.2	1204.4	1234.2	1252.8	1234.2	1204.4	1172.2	1168.6	1172.2
37.5	1113.8	1118.6	1156.2	1189.4	1209.1	1189.4	1156.2	1118.6	1113.8	1118.6
40.0	1057.3	1062.7	1101.8	1141.3	1160.2	1141.3	1101.8	1062.7	1057.3	1062.7
42.5	1000.9	1010.2	1049.8	1087.4	1113.0	1087.4	1049.8	1010.2	1000.9	1010.2
45.0	942.5	952.8	998.0	1040.1	1062.6	1040.1	998.0	952.8	942.5	952.8
47.5	884.3	894.9	941.9	988.2	1011.5	988.2	941.9	894.9	884.3	894.9
50.0	824.4	836.3	884.7	933.7	957.7	933.7	884.7	836.3	824.4	836.3
52.5	763.5	777.1	826.9	878.9	903.0	878.9	826.9	777.1	763.5	777.1
55.0	702.7	717.4	769.3	824.2	848.1	824.2	769.3	717.4	702.7	717.4
57.5	642.9	658.9	712.3	769.4	794.1	769.4	712.3	658.9	642.9	658.9
60.0	583.5	600.6	655.9	714.6	740.4	714.6	655.9	600.6	583.5	600.6
62.5	524.5	542.9	599.6	660.6	689.1	660.6	599.6	542.9	524.5	542.9
65.0	467.0	486.3	544.8	609.8	640.4	609.8	544.8	486.3	467.0	486.3
67.5	411.3	432.2	492.1	562.2	593.3	562.2	492.1	432.2	411.3	432.2
70.0	357.8	378.7	443.8	516.8	548.6	516.8	443.8	378.7	357.8	378.7
72.5	304.6	327.1	397.8	471.4	503.0	471.4	397.8	327.1	304.6	327.1
75.0	253.7	278.3	353.7	423.7	452.3	423.7	353.7	278.3	253.7	278.3
77.5	204.6	232.1	308.9	370.5	395.9	370.5	308.9	232.1	204.6	232.1
80.0	157.9	188.1	260.3	315.5	340.5	315.5	260.3	188.1	157.9	188.1
82.5	112.9	146.6	209.0	262.6	285.6	262.6	209.0	146.6	112.9	146.6
85.0	70.6	103.6	154.4	182.1	191.2	182.1	154.4	103.6	70.6	103.6
87.5	31.0	56.6	70.1	71.7	73.5	71.7	70.1	56.6	31.0	56.6
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5	0.0	0.0	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	0.0	0.0
97.5	0.0	0.0	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	0.0	0.0
102.5	0.0	0.0	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	0.0	0.0
107.5	0.0	0.0	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	0.0	0.0
112.5	0.0	0.0	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	0.0	0.0
117.5	0.0	0.0	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	0.0	0.0
122.5	0.0	0.0	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	0.0	0.0
127.5	0.0	0.0	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	0.0	0.0
132.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA TABULATION - (Cont.)

135.0	0.0	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	0.0	0.0
140.0	0.0	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	0.0	0.0
145.0	0.0	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	0.0	0.0
150.0	0.0	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	0.0	0.0
155.0	0.0	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	0.0	0.0
160.0	0.0	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	0.0	0.0
165.0	0.0	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	0.0	0.0
170.0	0.0	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	0.0	0.0
175.0	0.0	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	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Vert. Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	1569.0	1569.0	1569.0	1569.0	1569.0	1569.0	1569.0
2.5	1568.0	1560.3	1568.7	1560.3	1568.0	1566.3	1577.1
5.0	1564.2	1554.6	1566.1	1554.6	1564.2	1557.8	1570.0
7.5	1552.6	1545.6	1555.0	1545.6	1552.6	1549.2	1558.4
10.0	1538.2	1534.2	1544.2	1534.2	1538.2	1532.2	1541.9
12.5	1522.3	1517.3	1530.0	1517.3	1522.3	1514.6	1522.0
15.0	1498.5	1497.4	1510.7	1497.4	1498.5	1490.2	1496.9
17.5	1475.1	1475.6	1487.9	1475.6	1475.1	1461.2	1468.0
20.0	1443.4	1450.8	1463.7	1450.8	1443.4	1430.9	1435.1
22.5	1413.9	1420.8	1435.9	1420.8	1413.9	1397.3	1400.5
25.0	1378.9	1390.8	1405.6	1390.8	1378.9	1356.0	1361.5
27.5	1341.2	1354.0	1371.5	1354.0	1341.2	1314.6	1317.4
30.0	1297.8	1317.9	1335.2	1317.9	1297.8	1269.3	1269.6
32.5	1254.5	1276.4	1295.3	1276.4	1254.5	1222.5	1221.5
35.0	1204.4	1234.2	1252.8	1234.2	1204.4	1172.2	1168.6
37.5	1156.2	1189.4	1209.1	1189.4	1156.2	1118.6	1113.8
40.0	1101.8	1141.3	1160.2	1141.3	1101.8	1062.7	1057.3
42.5	1049.8	1087.4	1113.0	1087.4	1049.8	1010.2	1000.9
45.0	998.0	1040.1	1062.6	1040.1	998.0	952.8	942.5
47.5	941.9	988.2	1011.5	988.2	941.9	894.9	884.3
50.0	884.7	933.7	957.7	933.7	884.7	836.3	824.4
52.5	826.9	878.9	903.0	878.9	826.9	777.1	763.5
55.0	769.3	824.2	848.1	824.2	769.3	717.4	702.7
57.5	712.3	769.4	794.1	769.4	712.3	658.9	642.9
60.0	655.9	714.6	740.4	714.6	655.9	600.6	583.5
62.5	599.6	660.6	689.1	660.6	599.6	542.9	524.5
65.0	544.8	609.8	640.4	609.8	544.8	486.3	467.0
67.5	492.1	562.2	593.3	562.2	492.1	432.2	411.3
70.0	443.8	516.8	548.6	516.8	443.8	378.7	357.8
72.5	397.8	471.4	503.0	471.4	397.8	327.1	304.6
75.0	353.7	423.7	452.3	423.7	353.7	278.3	253.7
77.5	308.9	370.5	395.9	370.5	308.9	232.1	204.6
80.0	260.3	315.5	340.5	315.5	260.3	188.1	157.9

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CANDELA TABULATION - (Cont.)

82.5	209.0	262.6	285.6	262.6	209.0	146.6	112.9
85.0	154.4	182.1	191.2	182.1	154.4	103.6	70.6
87.5	70.1	71.7	73.5	71.7	70.1	56.6	31.0
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5	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
97.5	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
102.5	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
107.5	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
112.5	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
117.5	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
122.5	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
127.5	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
132.5	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
137.5	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
142.5	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
147.5	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
152.5	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
157.5	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
162.5	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
167.5	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
172.5	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
177.5	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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	570.69	N.A.	12.70
0-30	1204.98	N.A.	26.90
0-40	1958.81	N.A.	43.70
0-60	3419.18	N.A.	76.30
0-80	4335.23	N.A.	96.70
0-90	4481.2	N.A.	100.00
10-90	4332.96	N.A.	96.70
20-40	1388.12	N.A.	31.00
20-50	2157.9	N.A.	48.20
40-70	2005.36	N.A.	44.80
60-80	916.05	N.A.	20.40
70-80	371.06	N.A.	8.30
80-90	145.97	N.A.	3.30
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4481.2	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	148.25
10-20	422.44
20-30	634.29
30-40	753.83
40-50	769.78
50-60	690.59
60-70	544.99
70-80	371.06
80-90	145.97
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

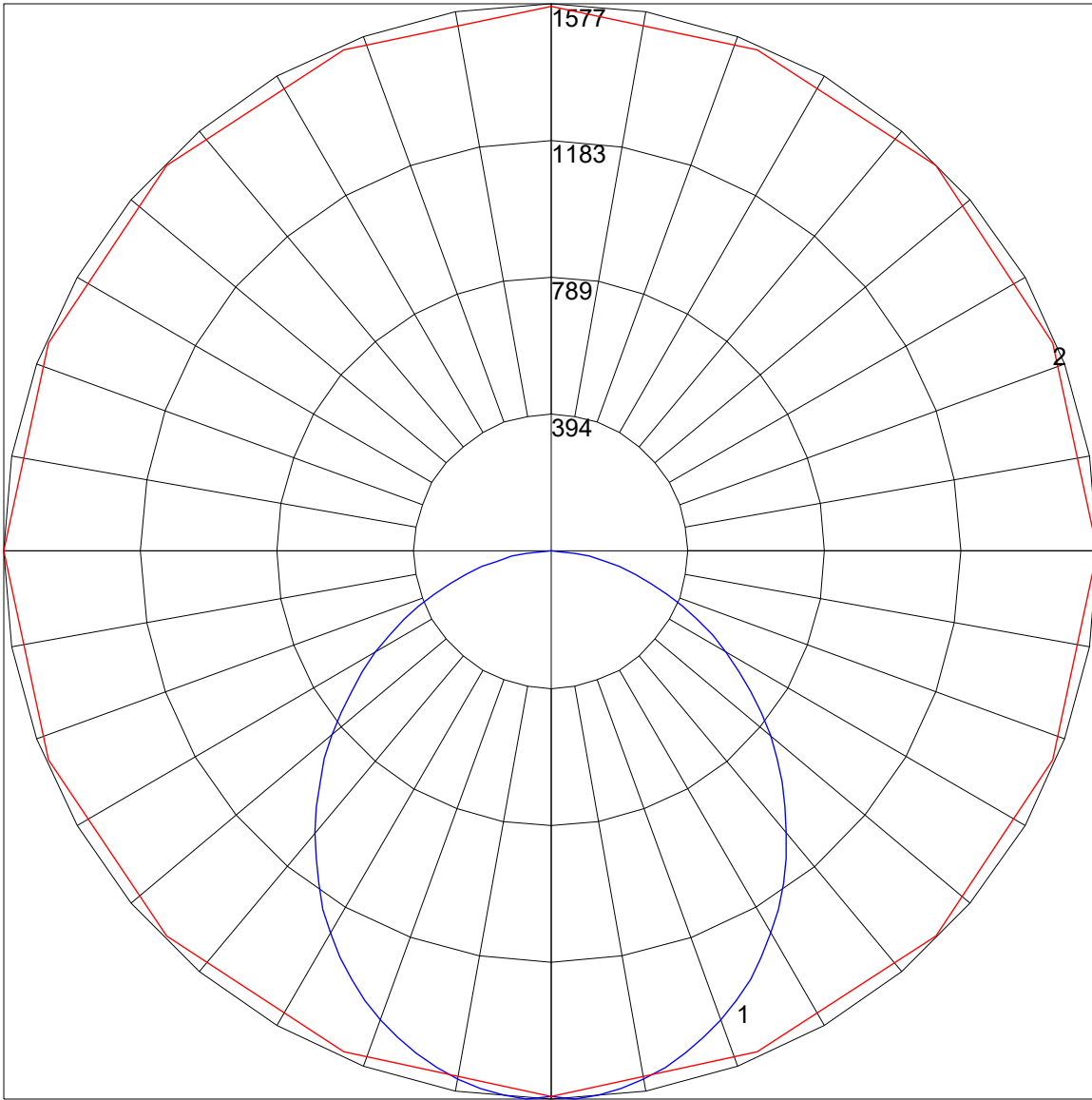
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	74	70	68
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

POLAR GRAPH



Maximum Candela = 1577.1 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)