



**IESNA  
SUSTAINING  
MEMBER**



<b>Test Report Number:</b>	<b>LCZP14070096</b>	Total Pages: 7
<b>Applicant Name:</b>	L-TECH CORPORATION	
<b>Applicant Address:</b>	SHAOGANGTOU DISTRICT, QIAOTOU TOWN, DONGGUAN CITY, GUANGDONG PROVINCE, CHINA	
<b>Test item:</b>	LED Downlight	
<b>Model / Type Reference:</b>	LRKT565-9030	
<b>Date of Issue:</b>	2014-07-16	
<b>Testing Laboratory:</b>	LCTECH (Zhongshan) Testing Service Co., Ltd 2/F., Technology and Enterprise Development Center, Guangyuan Road, Xiaolan, Zhongshan, Guangdong, China	
<b>Test Specification:</b>	Photometric test (According to IES LM-79-08)	
<b>Test Result:</b>	See following pages	
<b>Compiled by:</b>	<b>Reviewed by:</b>	
2014-07-16	Lin Qiu	
2014-07-16	Richard Li	
_____	_____	_____
Date	Name	Signature
Date	Name	Signature
<b>Remark:</b>	N/A	
<p>The duplication of this report or parts of it and its use for advertising purposes is only allowed with permission of the testing laboratory. This report contains the result of the examination of the product sample submitted by the applicant. A general statement concerning the quality of the products from the series manufacture cannot be derived therefore.</p>		



**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-1995  
[TEST] LCZP14070096  
[DATE] 2014-7-14  
[MANUFAC] L-TECH CORPORATION  
[LUMCAT] LRKT565-9030  
[LUMINAIRE] LED Downlight  
[LAMPCAT] LED  
[LAMP] LED  
[OTHER] ELECTRICAL VALUES:120.03VAC 0.130A 12.57W 0.804

**CHARACTERISTICS**

Total Luminaire Lumens	971.55
Luminaire Efficacy	77
Total Luminaire Watts	13
CIE Type	Direct
Spacing Criteria (0-180)	1.18
Spacing Criteria (90-270)	1.18
Spacing Criteria (Diagonal)	1.28
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.08 m (Diameter)
Luminous Width (90-270)	0.08 m (Diameter)
Luminous Height	0.00 m

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	68655	68439	68066
55	59429	59108	58951
65	48300	47944	47607
75	34867	34609	34326
85	15721	15841	15193



CANDELA TABULATION



	<u>0</u>	<u>15</u>	<u>30</u>	<u>45</u>	<u>60</u>	<u>75</u>	<u>90</u>
<b>0</b>	411.67	411.67	411.67	411.67	411.67	411.67	411.67
<b>5</b>	408.30	408.94	408.95	408.90	408.89	408.89	410.33
<b>10</b>	400.98	400.68	400.78	400.83	400.93	400.84	401.91
<b>15</b>	388.31	388.13	388.12	387.73	387.28	387.53	388.73
<b>20</b>	370.71	370.53	370.13	370.64	369.54	369.91	370.90
<b>25</b>	348.99	349.02	348.36	348.19	347.80	347.89	348.73
<b>30</b>	323.81	324.09	323.74	323.11	322.46	322.10	322.28
<b>35</b>	295.88	295.69	295.09	294.80	293.98	294.04	294.10
<b>40</b>	265.52	264.66	264.60	263.86	263.17	262.63	262.75
<b>45</b>	232.07	232.19	231.52	231.34	230.44	230.09	230.08
<b>50</b>	197.89	197.95	197.71	196.70	196.23	195.59	195.43
<b>55</b>	162.95	162.76	162.86	162.07	161.60	161.42	161.64
<b>60</b>	129.29	129.06	128.82	127.95	127.89	127.55	127.52
<b>65</b>	97.58	97.35	96.73	96.86	96.38	95.86	96.18
<b>70</b>	68.81	68.43	68.50	68.22	67.76	67.78	67.89
<b>75</b>	43.14	43.25	42.95	42.82	42.80	42.44	42.47
<b>80</b>	21.88	21.59	21.66	21.70	21.41	21.18	21.43
<b>85</b>	6.55	6.62	6.55	6.60	6.57	6.51	6.33
<b>90</b>	0.58	0.64	0.55	0.50	0.46	0.38	0.38
<b>95</b>	0.40	0.40	0.36	0.37	0.36	0.37	0.36
<b>100</b>	0.38	0.38	0.40	0.38	0.39	0.37	0.38
<b>105</b>	0.40	0.40	0.42	0.40	0.40	0.41	0.43
<b>110</b>	0.43	0.41	0.41	0.43	0.41	0.43	0.43
<b>115</b>	0.43	0.44	0.43	0.42	0.46	0.43	0.43
<b>120</b>	0.45	0.44	0.45	0.45	0.44	0.43	0.43
<b>125</b>	0.46	0.46	0.48	0.46	0.48	0.47	0.50
<b>130</b>	0.52	0.51	0.51	0.52	0.52	0.49	0.52
<b>135</b>	0.50	0.48	0.48	0.48	0.48	0.48	0.48
<b>140</b>	0.53	0.52	0.51	0.50	0.51	0.52	0.50
<b>145</b>	0.60	0.60	0.60	0.58	0.62	0.59	0.60
<b>150</b>	0.72	0.74	0.76	0.73	0.74	0.74	0.74
<b>155</b>	0.93	0.89	0.89	0.91	0.92	0.90	0.91
<b>160</b>	1.15	1.13	1.14	1.16	1.13	1.15	1.13
<b>165</b>	1.34	1.36	1.37	1.38	1.38	1.36	1.36
<b>170</b>	1.53	1.53	1.54	1.53	1.53	1.52	1.55
<b>175</b>	1.60	1.61	1.58	1.61	1.62	1.58	1.62
<b>180</b>	1.66	1.66	1.66	1.66	1.66	1.66	1.66



**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	308.4	31.7	31.7
0-40	492.58	50.7	50.7
0-60	815.88	84	84
0-90	968.11	99.6	99.6
90-120	1.3	.1	.1
90-130	1.73	.2	.2
90-150	2.49	.3	.3
90-180	3.45	.4	.4
0-180	971.56	100	100

Total Luminaire Efficiency = 100%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	38.78
10-20	109.27
20-30	160.34
30-40	184.18
40-50	178.11
50-60	145.19
60-70	96.43
70-80	46.24
80-90	9.56
90-100	.45
100-110	.43
110-120	.43
120-130	.42
130-140	.38
140-150	.38
150-160	.42
160-170	.38
170-180	.15

Note: The luminaire was LED luminaire, the luminaire lumens was also considered as bare lamp lumens.

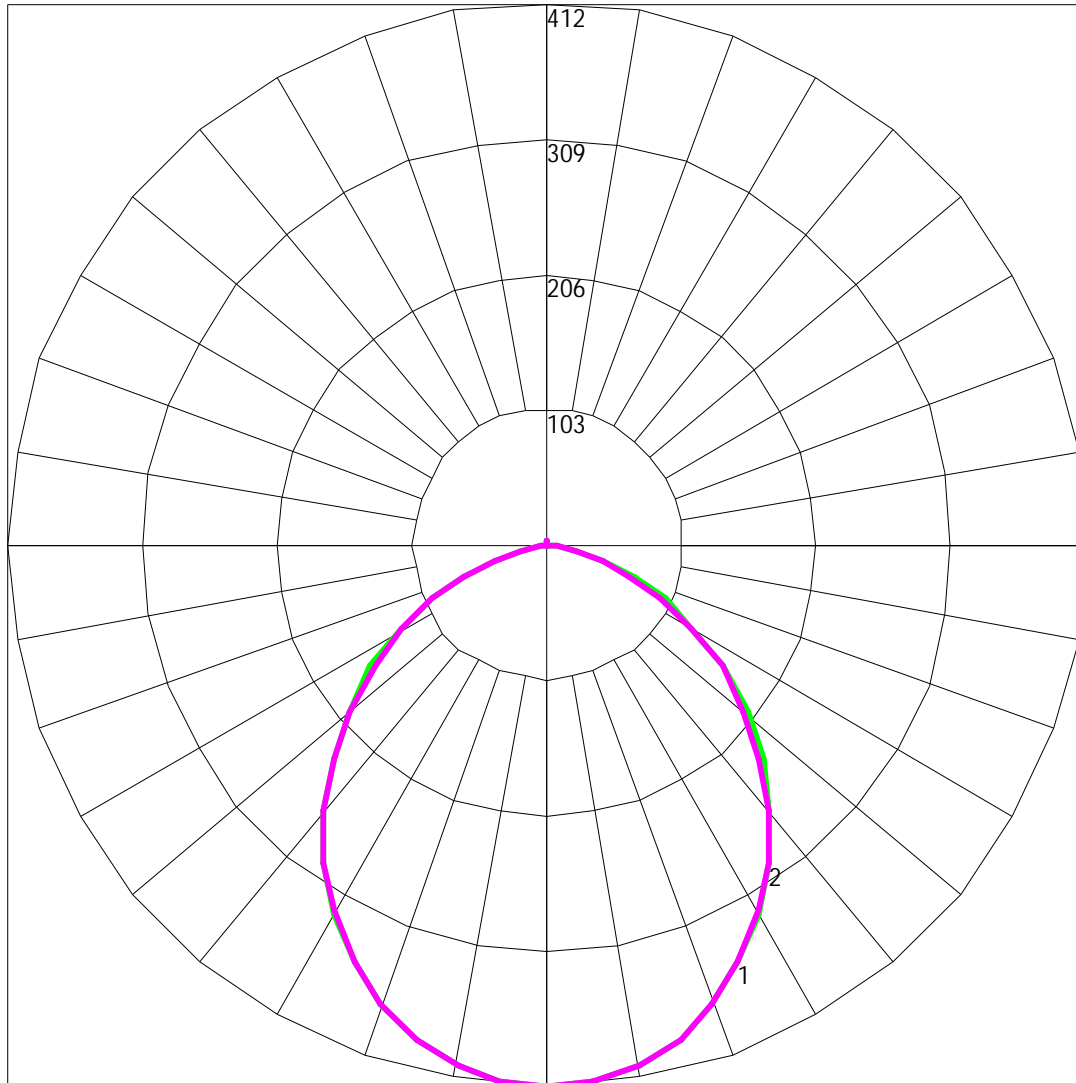


**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98		107	103	100	96	99	96	93	95	93	90	91	89	88	86
2	100	93	87	81		98	91	85	80	87	83	78	84	80	77	81	78	75	73
3	92	82	75	69		90	81	74	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59		82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51		76	65	57	51	63	56	50	61	55	50	59	53	49	47
6	72	60	51	45		71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40		66	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	50	41	36		61	49	41	36	48	41	35	46	40	35	45	39	35	33
9	59	46	38	32		57	45	38	32	44	37	32	43	37	32	42	36	32	30
10	55	42	35	30		54	42	34	29	41	34	29	40	34	29	39	33	29	27

Note: The luminaire was LED luminaire, the luminaire lumens was also considered as bare lamp lumens.

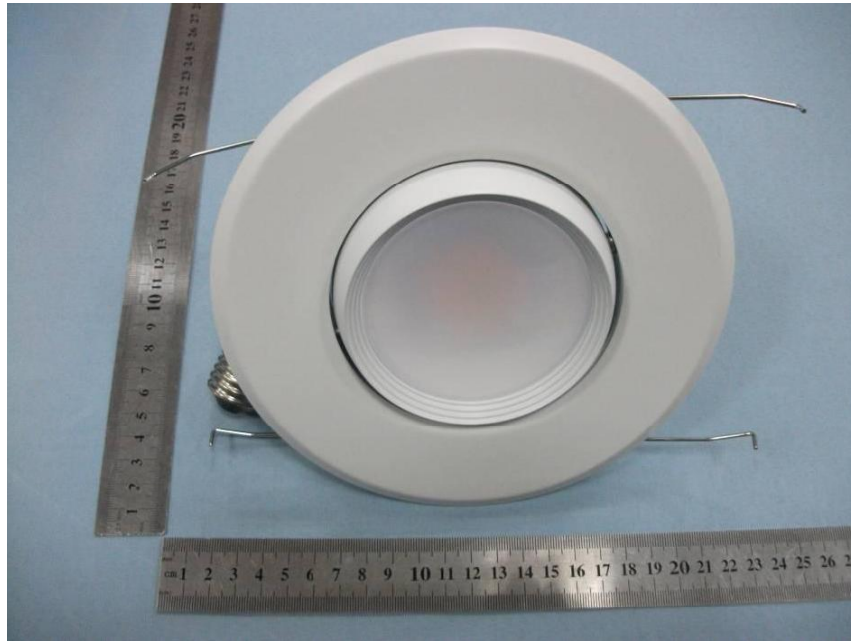


Maximum Candela = 411.67 Located At Horizontal Angle = 0, Vertical Angle = 0

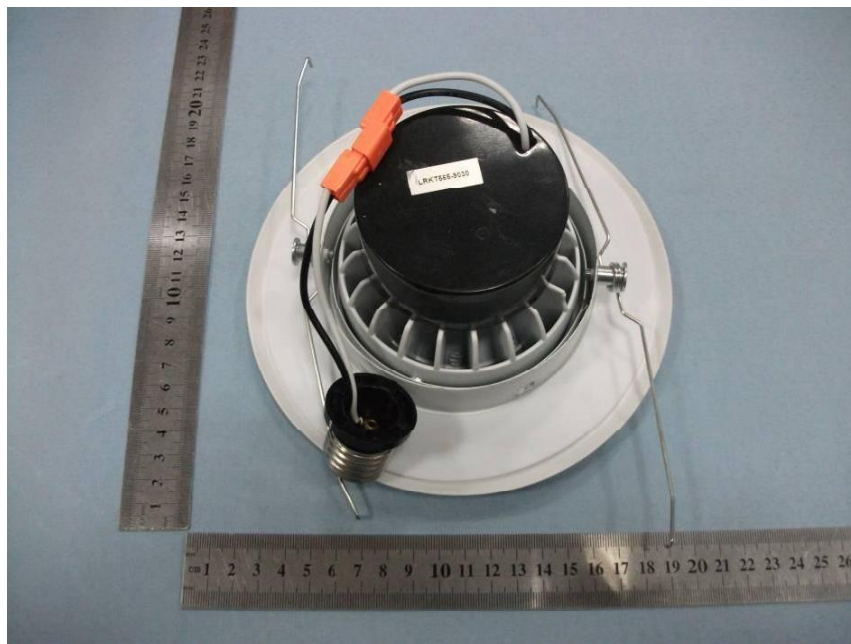
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Vertical Plane Through Horizontal Angles (90 - 270)

Photo of sample



Picture 1 Front View



Picture 2 Back View

--End of test report--