



**IESNA  
SUSTAINING  
MEMBER**

<b>Test Report Number:</b>	<b>LCZP14070113</b>	
<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>	LRKT400/403-9040	
<b>Date of Issue:</b>	2014-07-15	
<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>	
2014-07-15      Lin Qiu	2014-07-15      Richard Li	
_____	_____	
<i>Date</i> <i>Name</i> <i>Signature</i>	<i>Date</i> <i>Name</i> <i>Signature</i>	
<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>		

Total Pages: 7

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-1995  
 [TEST] LCZP14070113  
 [DATE] 2014-7-12  
 [MANUFAC] L-TECH CORPORATION  
 [LUMCAT] LRKT400/403-9040  
 [LUMINAIRE] LED Downlight  
 [LAMPCAT] LED  
 [LAMP] LED  
 [OTHER] ELECTRICAL VALUES:120.05VAC 0.089A 10.55W 0.993

**CHARACTERISTICS**

Total Luminaire Lumens	749 06
Luminaire Efficacy	71
Total Luminaire Watts	11
CIE Type	Direct
Spacing Criteria (0-180)	1.18
Spacing Criteria (90-270)	1.18
Spacing Criteria (Diagonal)	1.26
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.09 m (Diameter)
Luminous Width (90-270)	0.09 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	38580	38626	38784
55	29431	29472	29547
65	19161	19115	19035
75	8949	8943	8875
85	6044	6112	6061

**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>	354.08	354.08	354.08	354.08	354.08	354.08	354.08
<b>5</b>	351.65	351.64	351.60	351.75	351.80	351.79	352.50
<b>10</b>	344.95	345.61	345.10	345.36	345.32	345.42	345.86
<b>15</b>	334.37	334.80	334.43	334.47	334.79	334.81	334.93
<b>20</b>	319.33	319.67	319.32	319.51	319.39	319.52	319.79
<b>25</b>	299.55	299.81	299.59	300.27	299.94	300.29	299.77
<b>30</b>	276.53	276.51	276.42	276.27	276.57	276.66	276.62
<b>35</b>	249.77	249.26	249.51	249.68	250.00	249.62	250.24
<b>40</b>	219.54	218.77	219.35	218.57	219.28	219.03	219.08
<b>45</b>	185.39	185.22	185.56	185.61	186.02	185.84	186.37
<b>50</b>	149.68	149.77	149.51	149.67	150.06	150.01	149.78
<b>55</b>	114.72	114.61	114.57	114.88	115.06	114.72	115.17
<b>60</b>	82.41	82.72	82.38	82.65	82.44	82.58	82.55
<b>65</b>	55.03	54.91	54.69	54.90	54.51	54.85	54.67
<b>70</b>	32.26	32.29	32.18	31.99	32.12	31.93	32.04
<b>75</b>	15.74	15.82	15.70	15.73	15.54	15.70	15.61
<b>80</b>	7.97	8.05	8.04	8.05	8.04	8.07	8.06
<b>85</b>	3.58	3.62	3.58	3.62	3.58	3.58	3.59
<b>90</b>	0.41	0.37	0.40	0.37	0.37	0.34	0.38
<b>95</b>	0.34	0.37	0.35	0.36	0.35	0.39	0.38
<b>100</b>	0.34	0.36	0.38	0.37	0.35	0.36	0.36
<b>105</b>	0.36	0.39	0.39	0.39	0.36	0.40	0.38
<b>110</b>	0.38	0.40	0.40	0.42	0.40	0.41	0.41
<b>115</b>	0.41	0.41	0.40	0.40	0.40	0.41	0.40
<b>120</b>	0.45	0.43	0.43	0.44	0.44	0.43	0.43
<b>125</b>	0.50	0.47	0.48	0.48	0.46	0.46	0.48
<b>130</b>	0.50	0.50	0.49	0.51	0.51	0.50	0.52
<b>135</b>	0.50	0.50	0.47	0.51	0.48	0.48	0.48
<b>140</b>	0.52	0.56	0.54	0.55	0.58	0.53	0.53
<b>145</b>	0.67	0.64	0.64	0.65	0.64	0.61	0.65
<b>150</b>	0.81	0.82	0.80	0.80	0.79	0.80	0.81
<b>155</b>	1.01	0.98	1.00	0.98	1.00	0.99	0.96
<b>160</b>	1.25	1.26	1.25	1.24	1.25	1.24	1.24
<b>165</b>	1.50	1.54	1.50	1.50	1.50	1.50	1.50
<b>170</b>	1.70	1.68	1.69	1.68	1.68	1.67	1.68
<b>175</b>	1.79	1.79	1.78	1.79	1.79	1.78	1.77
<b>180</b>	1.83	1.83	1.83	1.83	1.83	1.83	1.83

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	265.54	35.4	35.4
0-40	421.23	56.2	56.2
0-60	667.1	89.1	89.1
0-90	745.59	99.5	99.5
90-120	1.21	.2	.2
90-130	1.64	.2	.2
90-150	2.44	.3	.3
90-180	3.48	.5	.5
0-180	749.07	100	100

Total Luminaire Efficiency = 100%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	33.38
10-20	94.25
20-30	137.91
30-40	155.69
40-50	142.73
50-60	103.14
60-70	55.39
70-80	18.85
80-90	4.25
90-100	.4
100-110	.41
110-120	.41
120-130	.42
130-140	.39
140-150	.41
150-160	.46
160-170	.42
170-180	.17

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

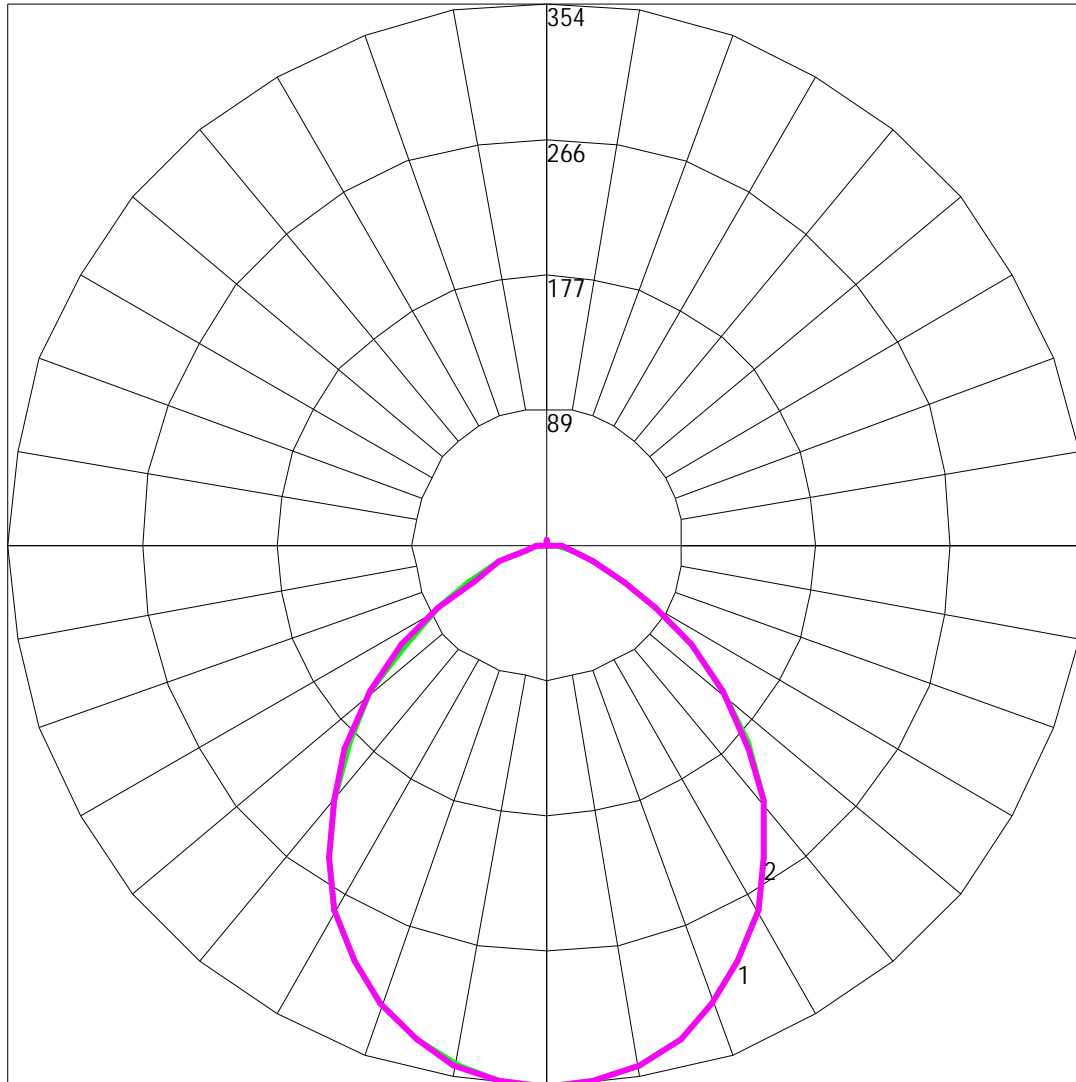
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	59	57
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45
7	69	57	49	43	68	56	49	43	55	48	43	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36
9	61	48	41	35	59	48	40	35	47	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

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



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POLAR GRAPH



Maximum Candela = 354.08 Located At Horizontal Angle = 0, Vertical Angle = 0

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

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

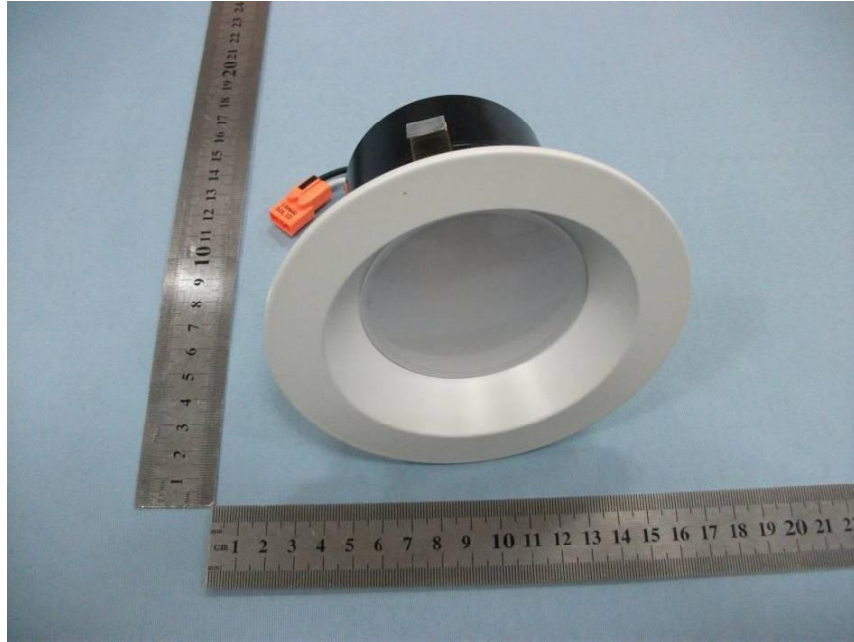
LCTECH (Zhongshan) Testing Service Co., Ltd.

Add: 2/F., Technology and Enterprise Development

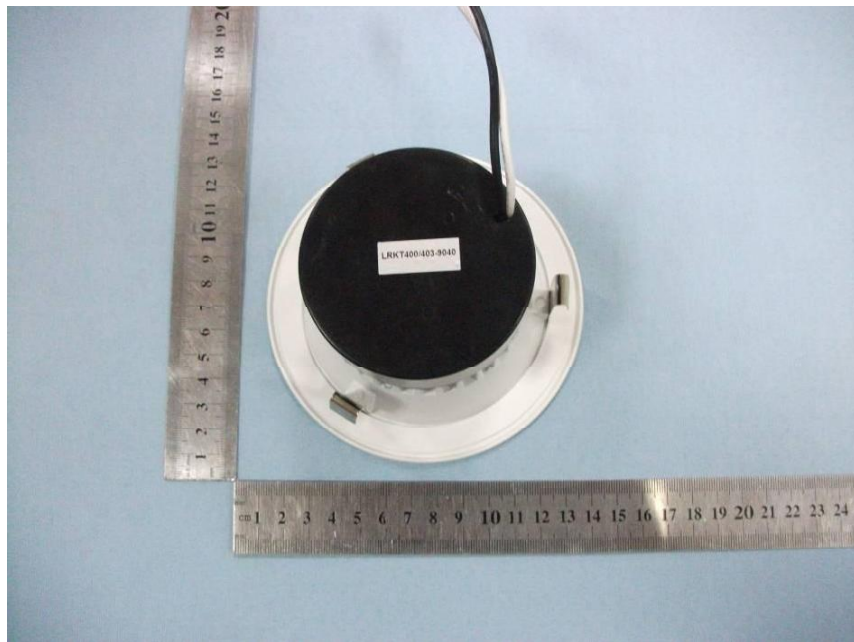
Center, Guangyuan Road, Xiaolan, Zhongshan, Guangdong, China

Tel: +86-760-22833366 Fax: +86-760-22833399 E-mail: Service@lccert.com <http://www.lccert.com>

Photo of sample



Picture 1 Front View



Picture 2 Back View

--End of test report--