

DATE :
 CUSTOMER :

APPROVAL SHEET

PRODUCT	LED TUBE CONVERTER TYPE LAMP
MODEL	SJ-SR120-25C(360-2 SIDE)
REVISION DATE	REV2.2_2015.02.22

Comment	Contents
	1. SPECIFICATION 5 P 2. 電気配線図 1 P 3. Outline Dimension 1 P 4. 配光試験成績書 8 P

SJ HIGHTECH CO.,LTD.			CUSTOMER		
PREPARED	CHECKED	APPROVED			
/	/	/	/	/	/

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Http : //www.sj-hightech.com

SPECIFICATION

製品仕様書

LED TUBE CONVERTER TYPE LAMP (LED蛍光灯)

MODEL : SJ-SR120-D25C(360-2 SIDE)

PRODUCT

LED TUBE CONVERTER TYPE LAMP (LED蛍光灯)

DATE	DECD	APPD	MODEL	SHEET	REV.
			SJ-SR120-D25C(360-2 SIDE)	1	2.2

1. 製品特性

- ・ 防水型
- ・ 発熱問題を解決する放熱技術
- ・ 既存 G13 口金
- ・ 最適な光拡散技術で眩しさを解消

2. 製品基本仕様

2-1 .照明仕様

No	項目 (ARTICLE)	規格 (SPECIFICATIONS)	備考
1	定格電圧(V)	DC 35.1Vdc	
2	定格電流(A)	0.712A	
3	定格電力(W)	25W	
4	寸法(mm)	T8(1198×31φ)	[mm] (公差 : ± 1.5mm)
5	本体重量(Kg)	213g	± 0.2 [g]
6	色温度	5,200 K	
7	演色性(Ra)	Ra>75	
8	光束(lm)	2,805 lm	
9	光効率(lm/W)	112.2 lm/W	
10	照射角(°)	360 Degree	
11	動作温度(°C)	-20[°C] ~ +40[°C]	
12	保管温度(°C)	-40[°C] ~ +85[°C]	
13	電源装置	外付型	
14	Base Type	G13	
15	Life Time(hr)	30,000 hr	
16	電源接続方法	無極性	

PRODUCT

LED TUBE CONVERTER TYPE LAMP (LED蛍光灯)

DATE	DECD	APPD	MODEL	SHEET	REV.
			SJ-SR120-D25C(360-2 SIDE)	2	2.2

2-2. SMPS 仕様

No	ITEM		SPEC
1	MODEL NO.		ADP-30WFP-CC
2	INPUT	INPUT VOLTAGE	95Vac-265Vac
3		POWER FACTOR	100V@ 99%, 220V@95%
4		WATTAGE	25W
5		FREQUENCY	50/60 Hz, 1PHASE
6		EFFICIENCY	MORE THAN 83%
7		OUTPUT	CURRENT
8	VOLTAGE		34 ~ 40Vdc
9	WATTAGE		21.1W
10	WRRANTY		2 YEARS

PRODUCT

LED TUBE CONVERTER TYPE LAMP (LED蛍光灯)

DATE	DECD	APPD	MODEL	SHEET	REV.
			SJ-SR120-D25C(360-2 SIDE)	3	2.2

2-3 .LED PKG 仕様

LED PKG Information	製造社	LUMIMICRO
	Type	Top View LED-SMD 5050(1.2T)
	数量	180pcs(12 X 15)

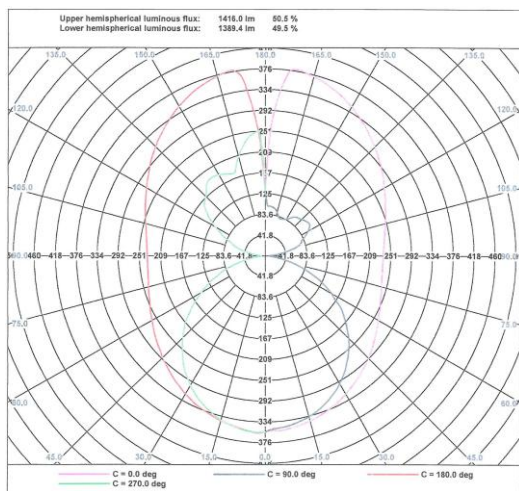
2-4 .材質

Base Material	Polycarbonate
Sub Material	FR-4, 0.8T PCB And PC Side cap

2-5 .製品外観

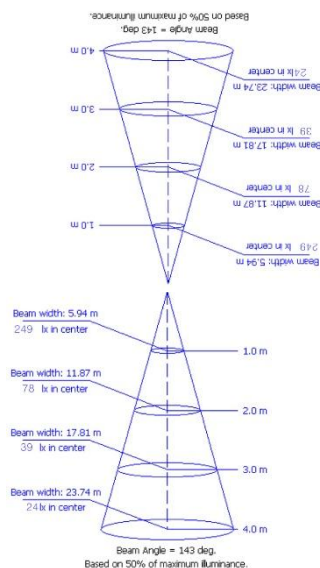


2-6 . 配光データ



<Polar Distribution>

2-7 . 直下照度



PRODUCT

LED TUBE CONVERTER TYPE LAMP (LED蛍光灯)

DATE	DECD	APPD	MODEL	SHEET	REV.
			SJ-SR120-D25C(360-2 SIDE)	4	2.2

3. 梱包及び表示

3-1. 梱包

(1) 運送及び取り扱い中、発生する外部からの衝撃で製品を保護するため梱包の際、製品の front と裏に緩衝材を入れて梱包する。

(2) 個別梱包後、指定された数量を1箱に入れて梱包する。

3-2. 表示

次の事項をランプまたは梱包箱の見やすいところに表示する。

- (1) 製造社名またはそのロゴ
- (2) 定格電圧(V)
- (3) 定格電流(A)
- (4) 定格電力(W)
- (5) 定格光束(lm)
- (6) 光効率(lm/W)
- (7) 色温度(k)
- (8) 点灯方向がある時、その方向
- (9) 注意事項
- (10) 製造年月
- (11) AS連絡先

4. 注意事項

(1) 本製品はコンバーター外付型LEDランプです。専用のコンバーターを使ってください。

(2) 一般蛍光灯安定器に使わないで下さい。

(3) 任意に製品の分解、改造しないで下さい。

(4) 製品を落としたり衝撃を与えないで下さい。

(5) 本製品は室内用製品です。屋外で使わないでください。

(6) 製品に不具合もしくは問題が発生したら弊社の A/Sセンターへご連絡下さい。

5. 品質保証

5-1. 無償保証

納品完了後3年以内に不具合(設計、製造上の不良)発生の時、修正、補完または再供給する。

5-2. 有償保証

(1) 使用者の取り扱い不注意で不具合が発生した場合。(製品の落下及び衝撃、容量超過使用など)

(2) 火災、水害など天災地変で不具合が発生した場合。

(3) 納品完了後、運送中発生した不良もしくは製品破損の場合。

PRODUCT

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			SJ-SR120-D25C(360-2 SIDE)	5	2.2

6. PART LIST**Part List**

NO	PART NAME	SPECIFICATION	TYPE	Q'TY	MAKER
1	LED	5050 PKG	TOP VIEW LED 5050(1.2T) WHITE	180PCS	ITSWELL
2	Diode	SS26	2.0 AMPS, 60V	8PCS	DEC
3	PC TUBE	PC	T8-1198mm	1PC	LG化学
4	PCB	FR-4	588×40×0.8T × 2	2PCS	Green電子 (株)
5	BASE	G13 or R17D	PC 難燃	2PCS	LG化学
6	JUMPER PIN	Φ0.6		4PCS	

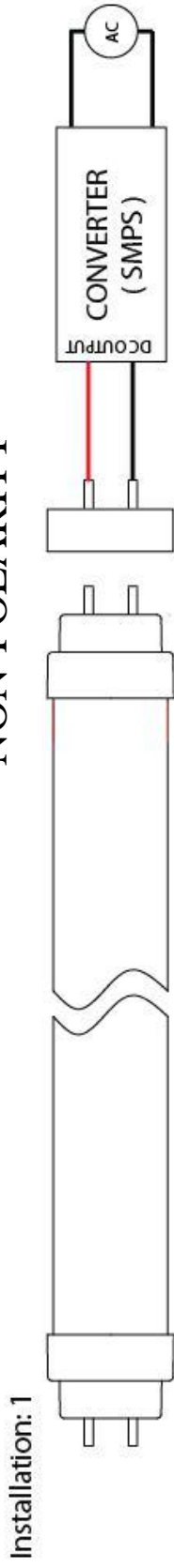
7. POLYCARBONATE PIPE 生産配合データ

生産データ	LD 7550	透明	
	100%	0	
※ 一般的なグレード(7550,7600,7650など)の基本物性表は同一し、 透過率は前の7の数字は抜いてその後の2つの数字 が透過率です。			
7700 は70%で、7650は65%です。			

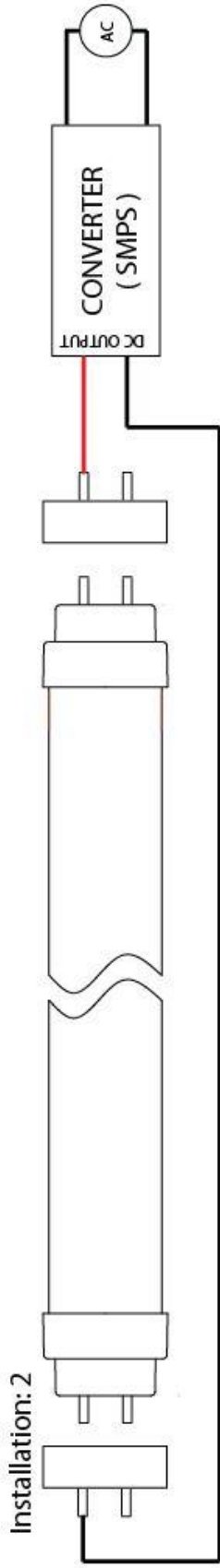
電気配線図

SJ-SR120-D25C(360-2 SIDE)

NON-POLARITY

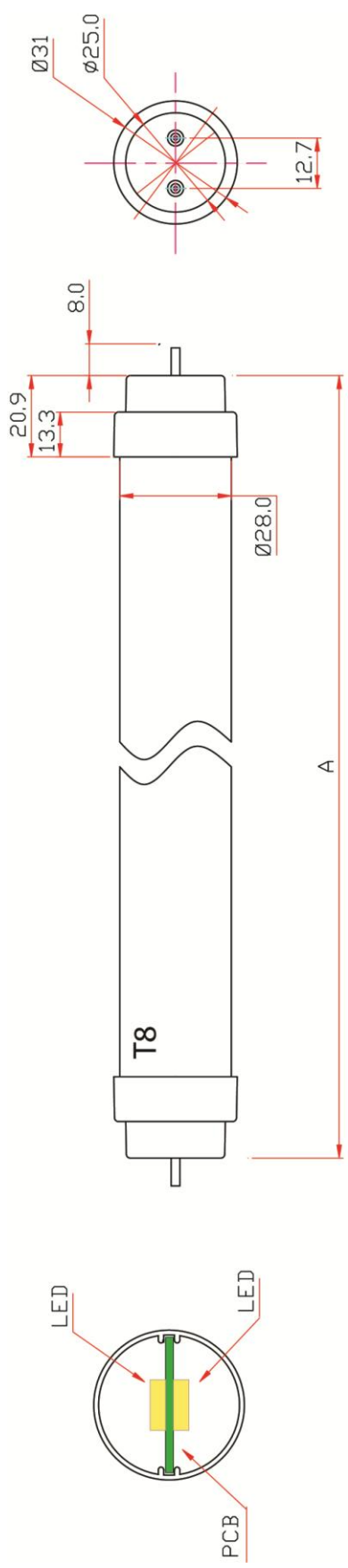


NON-POLARITY



Outline Dimension

SJ-SR-120-D25C(360-2 SIDE)



Actual Size: 1198mm
Model: SJ-SR120-D25C



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Lighting Technology
한국조명연구원

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시험 성적서 TEST REPORT

성적서 번호
Report No.
KILT1303-
F01084

1. 의뢰인 Applicant

- 회사명 : (주)에스제이하이테크
Client Name
- 주소 : 경기도 시흥시 은행동 3층
Address
- 접수일자 : 2013. 03. 26
Date of Receipt

2. 성적서 용도 : 품질관리용 Purpose of Report

3. 시험 규격/항목 : 의뢰자제시규격/입력전압, 입력전류, 입력전력, 전광속, 광효율, 배광 Test Standard/Item

4. 시험 기간 : 2013. 03. 26 ~ 2013. 04. 05 Test Period

5. 시험 환경 Test Environment

- 온도 : (24 ± 3) °C
Ambient Temp.
- 습도 : (45 ± 10) % R.H.
Relative Humidity

6. 시험 결과 : 불임 참조 Test Result

시험 품 Test Item

시험품명 :
Name of Product

직관형 LED 램프

모델명/정격 :
Model/Rating

모델명 : SJ-SR120-25C(360)
정 격 : 25 W

확 인 Confirmation	시험자(Test by)	기술책임자(Technical manager)
	성 명 : 박종빈 (인) Name	성 명 : 임종민 (인) Name

2013. 04. 05

한국조명연구원장

이 성적서 위의 내용은 시험 의뢰인에 의해 제공된 시료에 한하며, 용도 이외의 사용을 금합니다.
The results shown in this test report refer only to the sample(s) tested unless otherwise stated.
This report cannot be reproduced, except in full.



시험결과

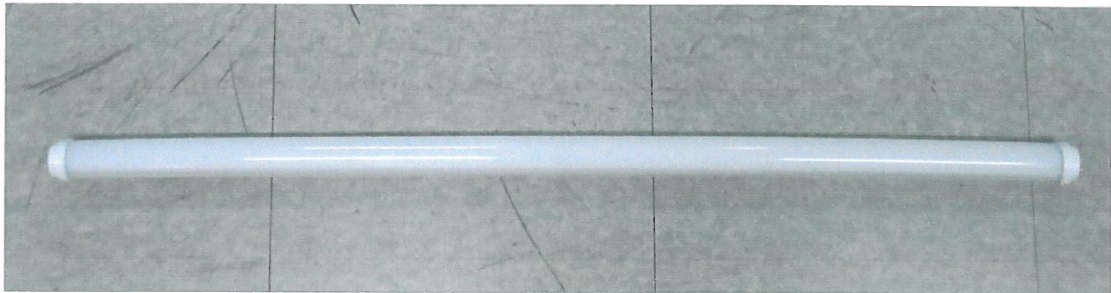
성적서 번호	KILT1303- F01084	시료 번호	n1	품명	직관형 LED 램프	시험 규격	의뢰자제시규격
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1. 시험결과

시험항목	단위	시험결과	비고
입력전압	V	35.1	-
입력전류	A	0.712	-
입력전력	W	25	-
전광속	lm	2 805	-
광효율	lm/W	112.2	-
배광	-	첨부 문서 참조 (3페이지 ~ 8페이지)	-

※ 본 시험은 의뢰자가 제출한 시료에 대하여 시험한 결과임

2. 측정시료



[성적서번호:KILT1303-F01084]

Distribution Photometry Report

Report Number: *KILT1303-F01084*

Date: *03-04-2013*

Catalog Number: *SJ-SR120-25C(360)*

Description: *LED TUBE
SJ-SR120-25C(360)
SJ-HIGHTECH
LEDs
Test Distance: 12.049m
LOR: 100%
Mains Test Parameters: Voltage: 35.1 V, Current: 0.712 A, Power: 25.0 W*

Filename: *KILT1303-F01084.ies*

Total Uncertainties of Measurement:
(As estimated at the 95% confidence interval)

Luminous Intensity	+/- 4%
Angle	+/- 0.1
Voltage	+/- 0.05%
Current	+/- 0.05%

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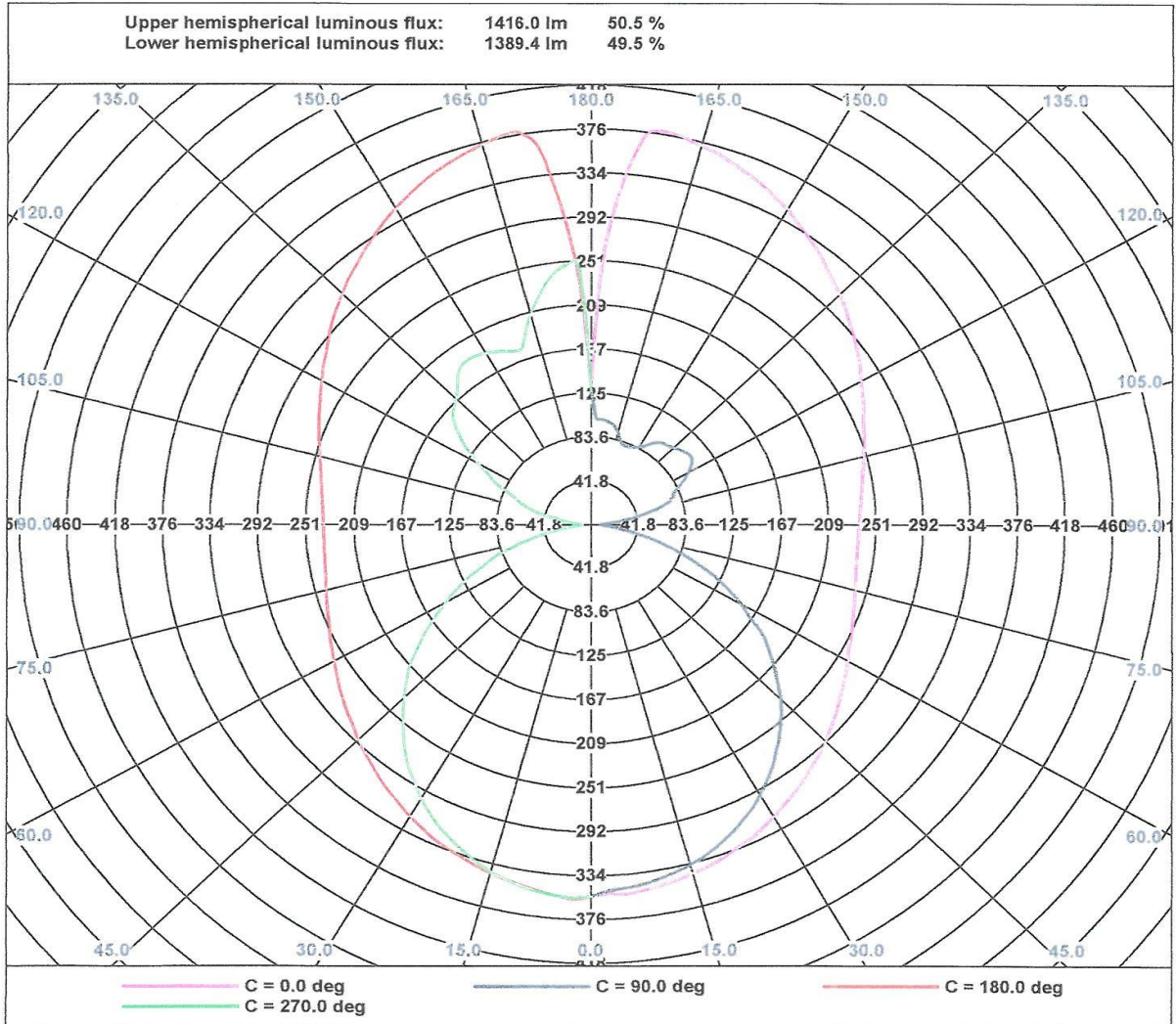
[성적서번호:KILT1303-F01084]

Luminaire: LED TUBE
Type: SJ-SR120-25C(360)
Lamp: LEDs
No. of lamps: 1
Lamp flux (lm): 2805.4
Output ratio (%): 100.0
Comment:

Report No: KILT1303-F01084
Name: SJ-HIGHTECH
Date: 03-04-2013

File name: KILT1303-F01084
Power (W): 25.000
Tilt angle (deg): -
Length (m): 0.000
Width (m): 1.200
Height (m): 0.000

Polar Luminous Intensity Distribution



All luminous intensity values (shown radially from centre) are in cd.
Elevation angle values are shown around the outside of the graph.

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[성적서번호:KILT1303-F01084]

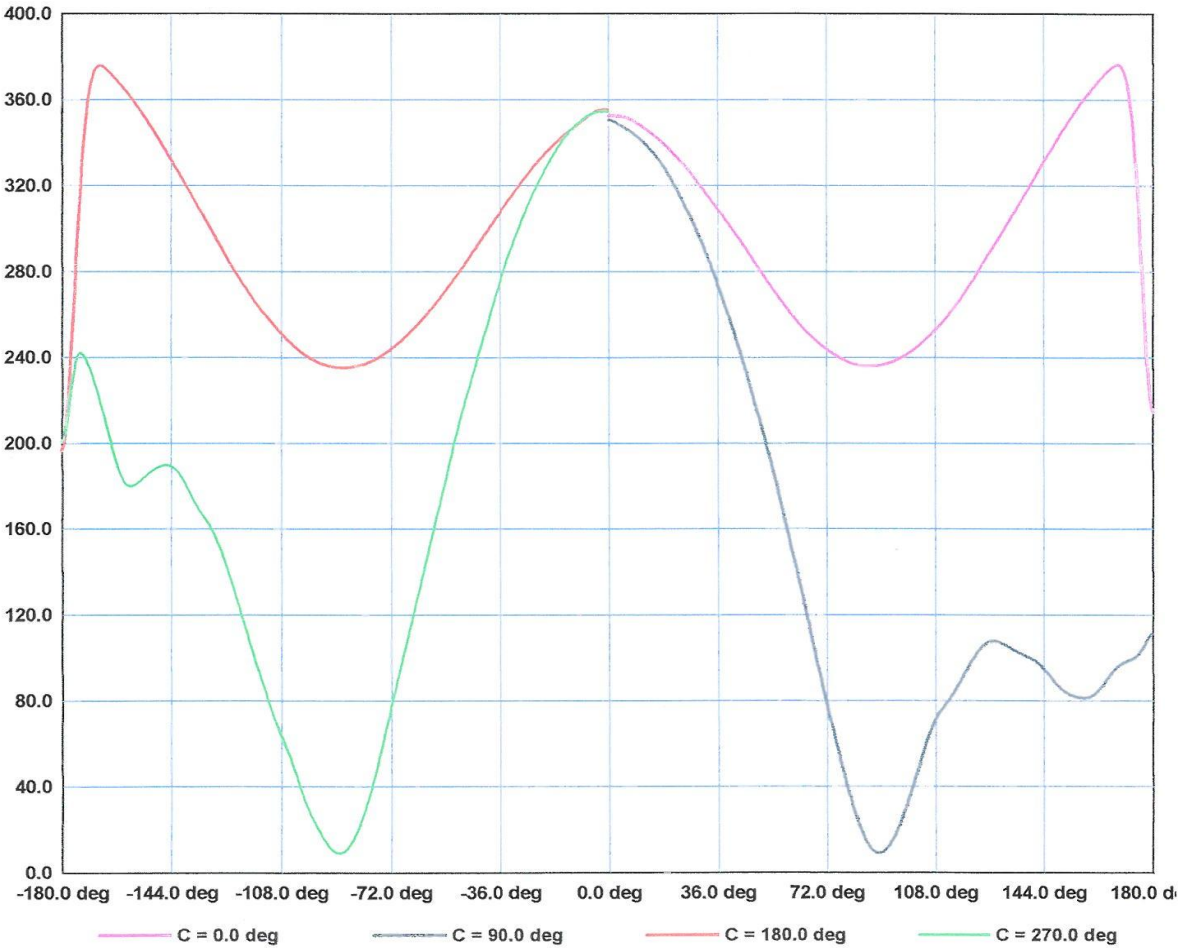
Luminaire: **LED TUBE**
 Type: **SJ-SR120-25C(360)**
 Lamp: **LEDs**
 No. of lamps: **1**
 Lamp flux (lm): **2805.4**
 Output ratio (%): **100.0**
 Comment:

Report No: **KILT1303-F01084**
 Name: **SJ-HIGHTECH**
 Date: **03-04-2013**

File name: **KILT1303-F01084**
 Power (W): **25.000**
 Tilt angle (deg): **-**
 Length (m): **0.000**
 Width (m): **1.200**
 Height (m): **0.000**

Cartesian Luminous Intensity Distribution

Upper hemispherical luminous flux: **1416.0 lm 50.5 %**
 Lower hemispherical luminous flux: **1389.4 lm 49.5 %**



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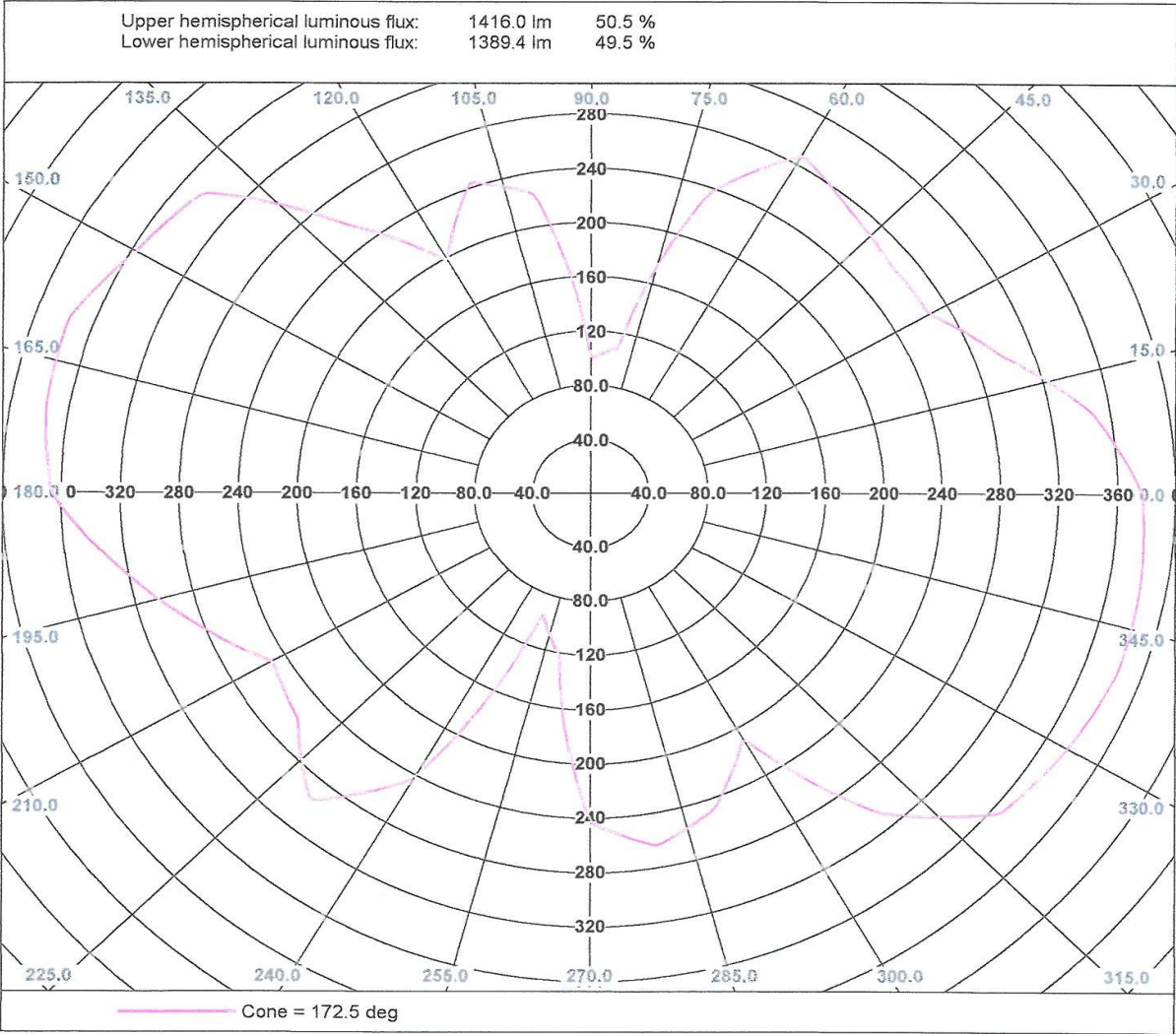
[성적서번호:KILT1303-F01084]

Luminaire: **LED TUBE**
 Type: **SJ-SR120-25C(360)**
 Lamp: **LEDs**
 No. of lamps: **1**
 Lamp flux (lm): **2805.4**
 Output ratio (%): **100.0**
 Comment:

Ref: **KILT1303-F01084**
 Name: **SJ-HIGHTECH**
 Date: **03-04-2013**

File name: **KILT1303-F01084**
 Power (W): **25.000**
 Tilt angle (deg): **-**
 Length (m): **0.000**
 Width (m): **1.200**
 Height (m): **0.000**

Cone Intensity Distribution



All luminous intensity values (shown radially from centre) are in cd.
 C-Plane angle values are shown around the outside of the graph.



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[성적서번호:KILT1303-F01084]

Luminaire: **LED TUBE**
 Type: **SJ-SR120-25C(360)**
 Lamp: **LEDs**
 No. of lamps: **1**
 Lamp flux (lm): **2805.4**
 Output ratio (%): **100.0**
 Comment:

File name: **KILT1303-F01084**
 Power (W): **25.000**
 Tilt angle (deg): **-**
 Length (m): **0.000**
 Width (m): **1.200**
 Height (m): **0.000**

Report No: **KILT1303-F01084**
 Name: **SJ-HIGHTECH**
 Date: **03-04-2013**

Luminous Flux Table

Lumen Summary			
Zone	Lumens (lm)	Lamp %	Luminaire %
0-30 deg	279.5	10.0	10.0
0-40 deg	464.5	16.6	16.6
0-60 deg	870.6	31.0	31.0
0-90 deg	1389	49.5	49.5
40-90 deg	925.0	33.0	33.0
60-90 deg	518.8	18.5	18.5
80-90 deg	157.1	5.6	5.6
90-100 deg	159.6	5.7	5.7
90-180 deg	1416	50.5	50.5
0-180 deg	2805	100.0	100.0

Luminaire Summary	
Total Luminaire Lumens:	2805 lm
Downward Lumens:	1389 lm
Upward Lumens:	1416 lm
Light Output Ratio (LOR):	100.0%
Downward LOR (DLOR):	49.5%
Upward LOR (ULOR):	50.5%

Complete Zonal Lumen Analysis

Elevation	Cone	Lumens (lm)	Cumulative	Lamp %	Luminaire %
0 deg	0.00 - 1.25	0.5	0.5	0.0	0.0
2.5 deg	1.25 - 3.75	4.2	4.8	0.2	0.2
5 deg	3.75 - 6.25	8.4	13.2	0.5	0.5
7.5 deg	6.25 - 8.75	12.6	25.8	0.9	0.9
10 deg	8.75 - 11.25	16.6	42.4	1.5	1.5
12.5 deg	11.25 - 13.75	20.5	63.0	2.2	2.2
15 deg	13.75 - 16.25	24.3	87.2	3.1	3.1
17.5 deg	16.25 - 18.75	27.9	115.1	4.1	4.1
20 deg	18.75 - 21.25	31.3	146.4	5.2	5.2
22.5 deg	21.25 - 23.75	34.4	180.8	6.4	6.4
25 deg	23.75 - 26.25	37.4	218.2	7.8	7.8
27.5 deg	26.25 - 28.75	40.1	258.3	9.2	9.2
30 deg	28.75 - 31.25	42.5	300.8	10.7	10.7
32.5 deg	31.25 - 33.75	44.6	345.4	12.3	12.3
35 deg	33.75 - 36.25	46.4	391.8	14.0	14.0
37.5 deg	36.25 - 38.75	48.0	439.8	15.7	15.7
40 deg	38.75 - 41.25	49.3	489.1	17.4	17.4
42.5 deg	41.25 - 43.75	50.2	539.3	19.2	19.2
45 deg	43.75 - 46.25	50.9	590.3	21.0	21.0
47.5 deg	46.25 - 48.75	51.4	641.6	22.9	22.9
50 deg	48.75 - 51.25	51.5	693.1	24.7	24.7
52.5 deg	51.25 - 53.75	51.3	744.4	26.5	26.5
55 deg	53.75 - 56.25	51.0	795.4	28.4	28.4
57.5 deg	56.25 - 58.75	50.4	845.8	30.1	30.1
60 deg	58.75 - 61.25	49.6	895.4	31.9	31.9
62.5 deg	61.25 - 63.75	48.7	944.1	33.7	33.7
65 deg	63.75 - 66.25	47.7	991.8	35.4	35.4
67.5 deg	66.25 - 68.75	46.4	1038.2	37.0	37.0
70 deg	68.75 - 71.25	45.3	1083.5	38.6	38.6
72.5 deg	71.25 - 73.75	44.1	1127.6	40.2	40.2
75 deg	73.75 - 76.25	42.8	1170.4	41.7	41.7
77.5 deg	76.25 - 78.75	41.6	1212.0	43.2	43.2
80 deg	78.75 - 81.25	40.6	1252.6	44.6	44.6
82.5 deg	81.25 - 83.75	39.7	1292.3	46.1	46.1
85 deg	83.75 - 86.25	39.1	1331.4	47.5	47.5

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[성적서번호:KILT1303-F01084]

Luminaire: **LED TUBE**
Type: **SJ-SR120-25C(360)**
Lamp: **LEDs**
No. of lamps: **1**
Lamp flux (lm): **2805.4**
Output ratio (%): **100.0**
Comment:

Report No: **KILT1303-F01084**
Name: **SJ-HIGHTECH**
Date: **03-04-2013**

File name: **KILT1303-F01084**
Power (W): **25.000**
Tilt angle (deg): **-**
Length (m): **0.000**
Width (m): **1.200**
Height (m): **0.000**

Luminous Flux Table (Continued)

Complete Zonal Lumen Analysis

Elevation	Cone	Lumens (lm)	Cumulative	Lamp %	Luminaire %
85 deg	83.75 - 86.25	39.1	1331.4	47.5	47.5
87.5 deg	86.25 - 88.75	38.7	1370.1	48.8	48.8
90 deg	88.75 - 91.25	38.7	1408.8	50.2	50.2
92.5 deg	91.25 - 93.75	39.0	1447.8	51.6	51.6
95 deg	93.75 - 96.25	39.7	1487.5	53.0	53.0
97.5 deg	96.25 - 98.75	40.7	1528.2	54.5	54.5
100 deg	98.75 - 101.25	41.7	1569.9	56.0	56.0
102.5 deg	101.25 - 103.75	43.1	1613.0	57.5	57.5
105 deg	103.75 - 106.25	44.5	1657.5	59.1	59.1
107.5 deg	106.25 - 108.75	45.9	1703.4	60.7	60.7
110 deg	108.75 - 111.25	47.2	1750.6	62.4	62.4
112.5 deg	111.25 - 113.75	48.5	1799.2	64.1	64.1
115 deg	113.75 - 116.25	49.9	1849.0	65.9	65.9
117.5 deg	116.25 - 118.75	50.9	1899.9	67.7	67.7
120 deg	118.75 - 121.25	52.0	1951.9	69.6	69.6
122.5 deg	121.25 - 123.75	52.8	2004.7	71.5	71.5
125 deg	123.75 - 126.25	53.4	2058.1	73.4	73.4
127.5 deg	126.25 - 128.75	53.8	2111.9	75.3	75.3
130 deg	128.75 - 131.25	53.8	2165.7	77.2	77.2
132.5 deg	131.25 - 133.75	53.6	2219.3	79.1	79.1
135 deg	133.75 - 136.25	53.0	2272.3	81.0	81.0
137.5 deg	136.25 - 138.75	52.2	2324.5	82.9	82.9
140 deg	138.75 - 141.25	51.1	2375.6	84.7	84.7
142.5 deg	141.25 - 143.75	49.7	2425.3	86.5	86.5
145 deg	143.75 - 146.25	47.9	2473.2	88.2	88.2
147.5 deg	146.25 - 148.75	45.8	2519.0	89.8	89.8
150 deg	148.75 - 151.25	43.4	2562.4	91.3	91.3
152.5 deg	151.25 - 153.75	40.6	2603.0	92.8	92.8
155 deg	153.75 - 156.25	37.5	2640.5	94.1	94.1
157.5 deg	156.25 - 158.75	34.1	2674.7	95.3	95.3
160 deg	158.75 - 161.25	30.5	2705.2	96.4	96.4
162.5 deg	161.25 - 163.75	26.7	2731.9	97.4	97.4
165 deg	163.75 - 166.25	22.6	2754.4	98.2	98.2
167.5 deg	166.25 - 168.75	18.5	2773.0	98.8	98.8
170 deg	168.75 - 171.25	14.3	2787.3	99.4	99.4
172.5 deg	171.25 - 173.75	9.9	2797.2	99.7	99.7
175 deg	173.75 - 176.25	5.7	2802.9	99.9	99.9
177.5 deg	176.25 - 178.75	2.3	2805.2	100.0	100.0
180 deg	178.75 - 180.00	0.2	2805.4	100.0	100.0

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