

# Report Summary

## Output

Total Lumens: 16289.8 lm  
Peak Intensity:  $5.64 \times 10^7$  cd  
Illuminance :564000 lux@10m, 25400lux@50m  
Fixture Efficacy: 32.1 lm/W

## Optical

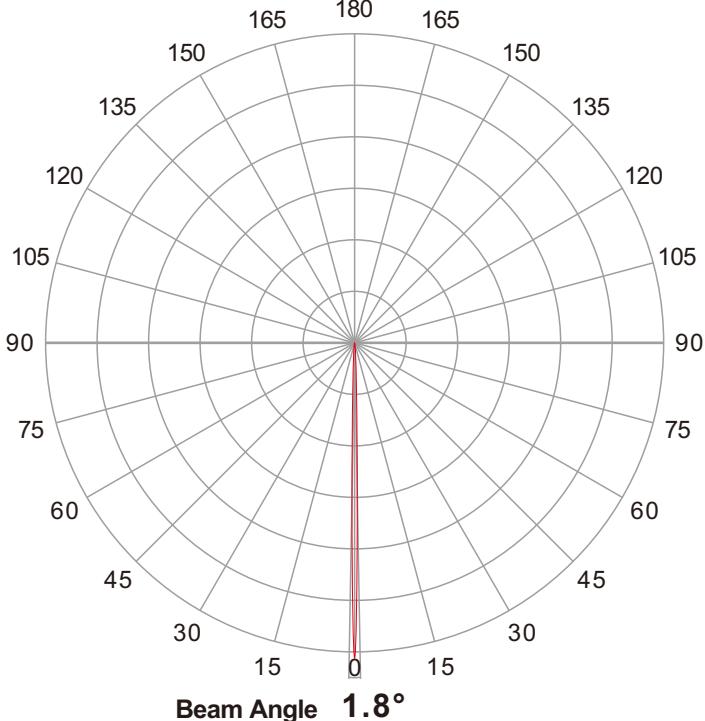
Horizontal Beam Angle (50%): 1°  
Vertical Beam Angle (50%): 1°  
Horizontal Field Angle (10%): 1.8°  
Vertical Field Angle (10%): 1.8°

## Conditions

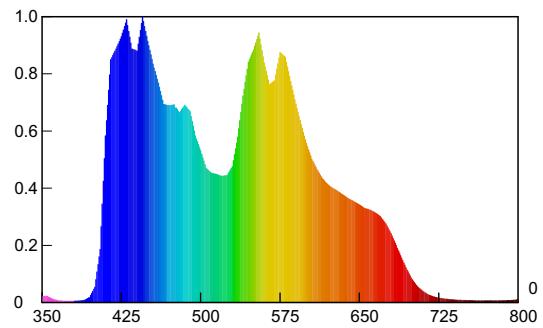
AC Supply: 230 V, 50 Hz  
Power: 578 W  
Current: 2.6 A  
Power Factor: 0.95

# Overall Measurement

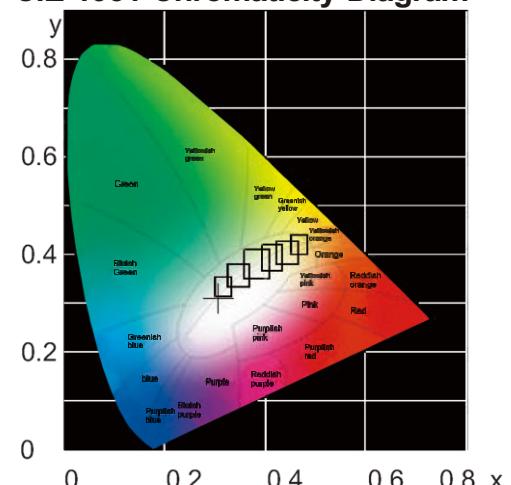
Angular Beam Distribution



Spectrual Distribution

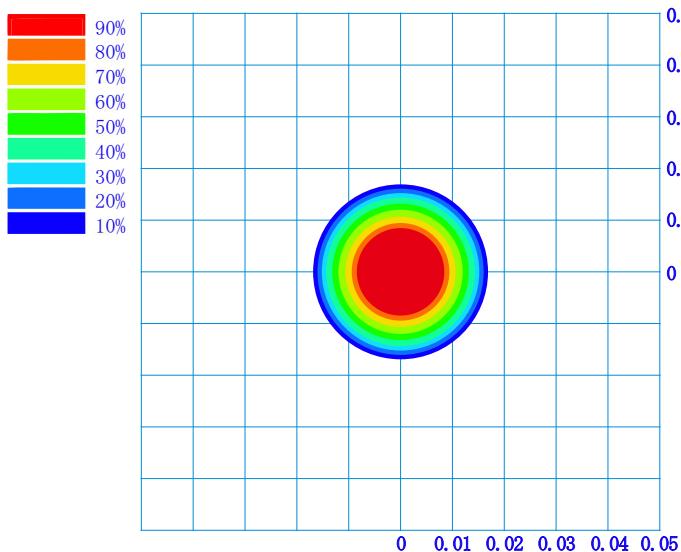


CIE 1931 Chromaticity Diagram



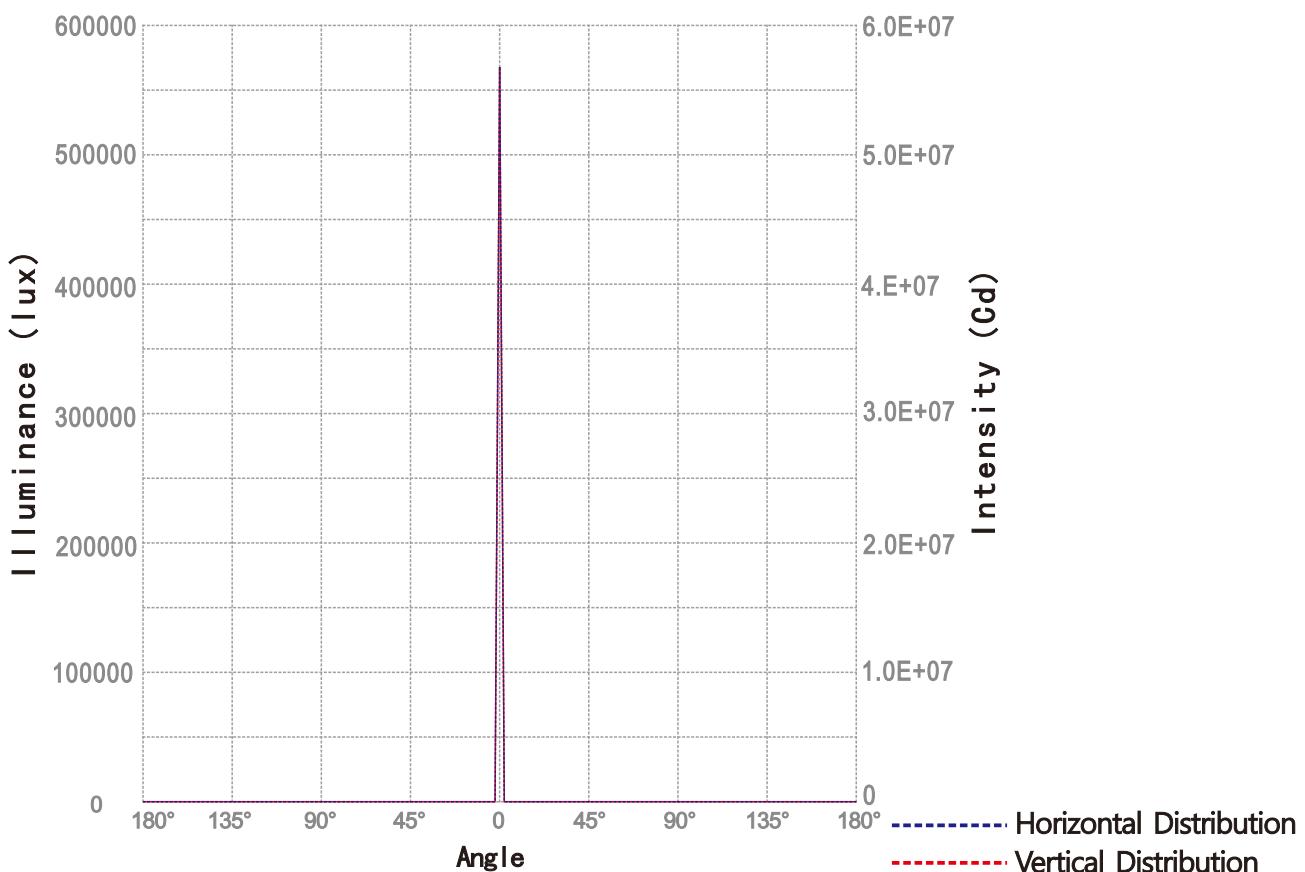
## Iso-illuminance diagram

## Testing data



total luminaire power(W)	578	lumen output of lamp (lm)	28000
throw distance(m)	10	diameter of test spot (m)	0.34
elevation angle for test(°)	0	environment stray light (lx)	10
centre illuminance (lx)	560000	field angle(°)	1.8
maximum illuminance (lx)	564000	beam angle(°)	1
deviating distance of the maximum illuminance point(cm)	3	azimuth of the maximum illuminance point(°)	108
diameter of effective spot (m)	0.34	effective lumen (lm)	16290
diameter of half-peak illuminance spot (m)	0.17	average illuminance (lx)	2296
throw distance multiplier	0.034	uniformity of illuminance(%)	48
luminaire efficiency(%)		luminaire efficacy (lm/W)	32.1

## Illuminance and Intensity plot



throw distance(m):10  
maximum illuminance(lux): 564000  
maximum (lcd):  $5.64 \times 10^7$

# Photometric Report

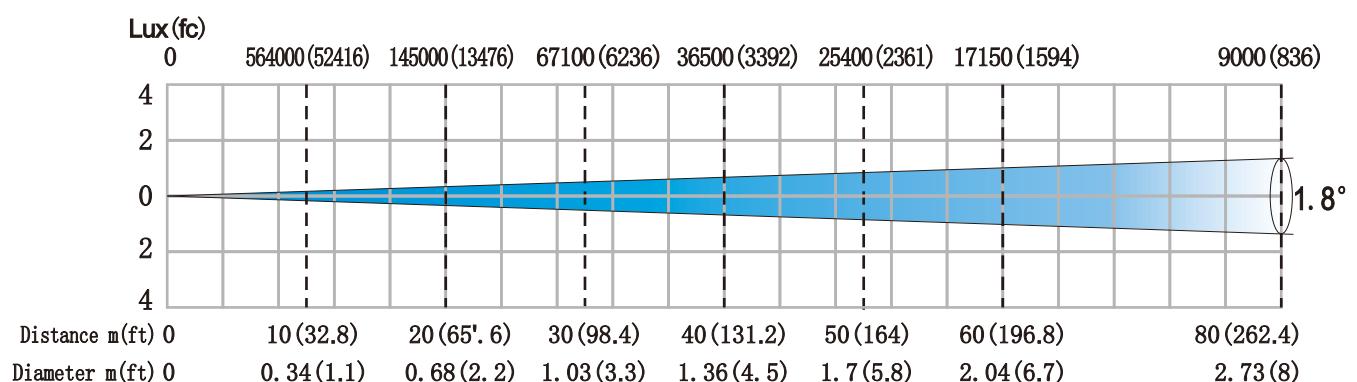
## Beam Details

### Poseidon distance, spot diameter and illumination diagram

Standard(1.8° )

Lamp:USHIO NSL400L

Lamp Total Output:28000 lumens



### Beam Illuminances from 10-80m(16.4-164ft)

Distance	10m	20m	30m	40m	50m	60m	80m
Lux	564000	145000	67000	36500	25400	17150	9000
Distance	32.8ft	65.6ft	98.4ft	131.2ft	164ft	196.8ft	262.4ft
FC	52416	13476	6236	3392	2361	1594	836